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PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * *   Welcome to STN International   * * * * * * * * *

NEWS 1   Web Page URLs for STN Seminar Schedule - N. America
NEWS 2   "Ask CAS" for self-help around the clock
NEWS 3   May 12   EXTEND option available in structure searching
NEWS 4   May 12   Polymer links for the POLYLINK command completed in REGISTRY
NEWS 5   May 27   New UPM (Update Code Maximum) field for more efficient patent
                     SDIs in CAplus
NEWS 6   May 27   CAplus super roles and document types searchable in REGISTRY
NEWS 7   Jun 28   Additional enzyme-catalyzed reactions added to CASREACT
NEWS 8   Jun 28   ANTE, AQUALINE, BIOENG, CIVILENG, ENVIROENG, MECHENG,
                     and WATER from CSA now available on STN(R)
NEWS 9   Jul 12   BEILSTEIN enhanced with new display and select options,
                     resulting in a closer connection to BABS
NEWS 10   Jul 30   BEILSTEIN on STN workshop to be held August 24 in conjunction
                     with the 228th ACS National Meeting
NEWS 11   AUG 02   IFIPAT/IFIUDB/IFICDB reloaded with new search and display
                     fields
NEWS 12   AUG 02   CAplus and CA patent records enhanced with European and Japan
                     Patent Office Classifications
NEWS 13   AUG 02   STN User Update to be held August 22 in conjunction with the
                     228th ACS National Meeting
NEWS 14   AUG 02   The Analysis Edition of STN Express with Discover!
                     (Version 7.01 for Windows) now available
NEWS 15   AUG 04   Pricing for the Save Answers for SciFinder Wizard within
                     STN Express with Discover! will change September 1, 2004
NEWS 16   AUG 27   BIOCOMMERCE: Changes and enhancements to content coverage
NEWS 17   AUG 27   BIOTECHABS/BIOTECHDS: Two new display fields added for legal
                     status data from INPADOC
NEWS 18   SEP 01   INPADOC: New family current-awareness alert (SDI) available
NEWS 19   SEP 01   New pricing for the Save Answers for SciFinder Wizard within
                     STN Express with Discover!
NEWS 20   SEP 01   New display format, HITSTR, available in WPIDS/WPINDEX/WPIX
NEWS 21   SEP 14   STN Patent Forum to be held October 13, 2004, in Iselin, NJ

NEWS EXPRESS   JULY 30 CURRENT WINDOWS VERSION IS V7.01, CURRENT
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004
NEWS HOURS   STN Operating Hours Plus Help Desk Availability
NEWS INTER   General Internet Information
NEWS LOGIN   Welcome Banner and News Items
NEWS PHONE   Direct Dial and Telecommunication Network Access to STN
NEWS WWW   CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
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of commercial gateways or other similar uses is prohibited and may
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* * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 15:22:41 ON 21 SEP 2004

=> fil ref
'REF' IS NOT A VALID FILE NAME
SESSION CONTINUES IN FILE 'HOME'
Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files
that are available. If you have requested multiple files, you can
specify a corrected file name or you can enter "IGNORE" to continue
accessing the remaining file names entered.

=> fil reg
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                                    ENTRY   SESSION
FULL ESTIMATED COST   0.21   0.21

FILE 'REGISTRY' ENTERED AT 15:23:19 ON 21 SEP 2004
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Property values tagged with IC are from the ZIC/VINITI data file
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STRUCTURE FILE UPDATES: 20 SEP 2004   HIGHEST RN 748739-98-2
DICTIONARY FILE UPDATES: 20 SEP 2004   HIGHEST RN 748739-98-2

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

   Please note that search-term pricing does apply when
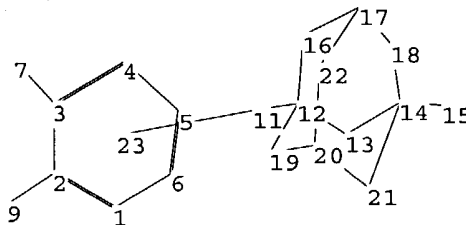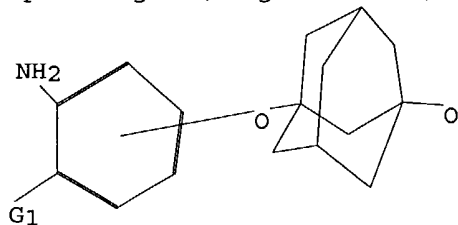   conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Program Files\Stnexp\Queries\10609456.str

chain nodes :
7 9 11 15
ring nodes :
1 2 3 4 5 6 12 13 14 16 17 18 19 20 21 22
chain bonds :

2-9 3-7 11-12 14-15
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 12-13 12-16 12-19 13-14 14-18 14-21 16-17
17-18 17-22 19-20 20-21 20-22
exact/norm bonds :
2-9 3-7 11-12 12-13 12-16 12-19 13-14 14-15 14-18 14-21 16-17 17-18
17-22 19-20 20-21 20-22
normalized bonds :
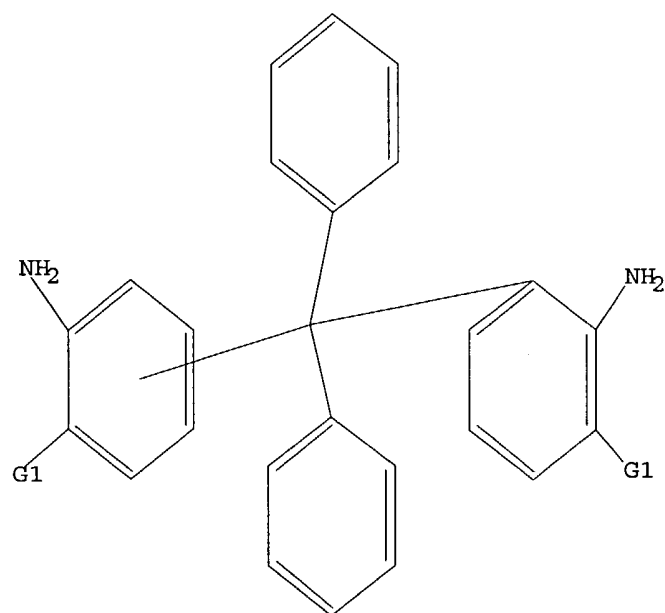1-2 1-6 2-3 3-4 4-5 5-6

G1:O,S

G2:C,O,S,N

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:CLASS 11:CLASS 12:Atom
 13:Atom 14:Atom 15:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom
22:Atom 23:CLASS

L1   STRUCTURE UPLOADED

=> d query
L1   STR

G1 O,S

Structure attributes must be viewed using STN Express query preparation.

=> s l1
SAMPLE SEARCH INITIATED 15:23:38 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   6 TO ITERATE

100.0% PROCESSED   6 ITERATIONS   0 ANSWERS

Page 3

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE   **COMPLETE**
                         BATCH   **COMPLETE**
PROJECTED ITERATIONS: 6 TO   266
PROJECTED ANSWERS: 0 TO   0

L2   0 SEA SSS SAM L1

=> s l1 full
FULL SEARCH INITIATED 15:23:41 FILE 'REGISTRY'
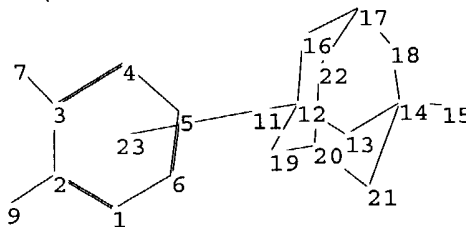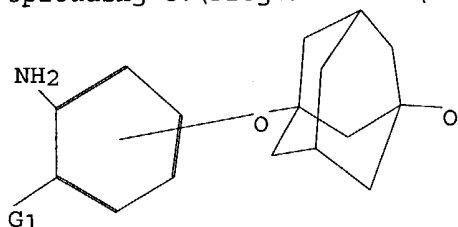FULL SCREEN SEARCH COMPLETED -   145 TO ITERATE

100.0% PROCESSED   145 ITERATIONS   0 ANSWERS
SEARCH TIME: 00.00.01

L3   0 SEA SSS FUL L1

=>
Uploading C:\Program Files\Stnexp\Queries\10609456.str

chain nodes :
7 9 11 15
ring nodes :
1 2 3 4 5 6 12 13 14 16 17 18 19 20 21 22
chain bonds :
2-9 3-7 11-12 14-15
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 12-13 12-16 12-19 13-14 14-18 14-21 16-17
17-18 17-22 19-20 20-21 20-22
exact/norm bonds :
2-9 3-7 11-12 12-13 12-16 12-19 13-14 14-15 14-18 14-21 16-17 17-18
17-22 19-20 20-21 20-22
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6

G1:O,S

G2:C,O,S,N

Match level :
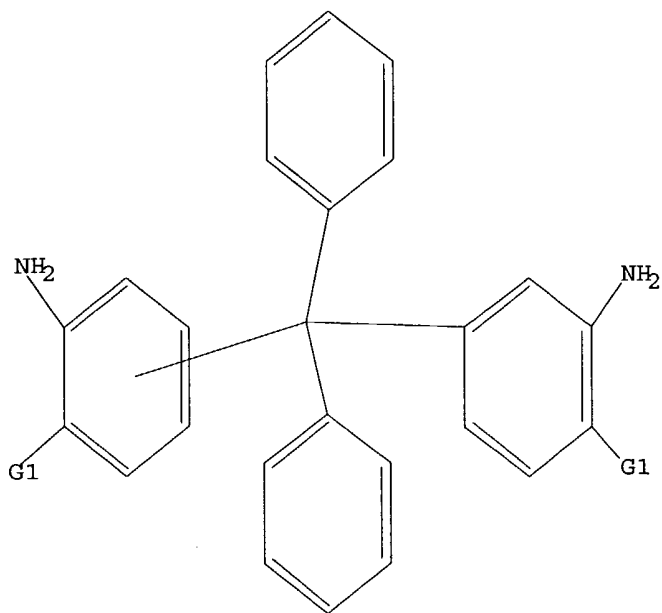1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:CLASS 11:CLASS 12:Atom
 13:Atom 14:Atom 15:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom
22:Atom 23:CLASS

L4   STRUCTURE UPLOADED

=> d query
L4   STR

Page 4

G1 O,S

Structure attributes must be viewed using STN Express query preparation.


```
=> s l4
SAMPLE SEARCH INITIATED 15:24:18 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      95 TO ITERATE

100.0% PROCESSED       95 ITERATIONS                          0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:   ONLINE   **COMPLETE**
                         BATCH    **COMPLETE**
PROJECTED ITERATIONS:         1316 TO       2484
PROJECTED ANSWERS:               0 TO          0

L5            0 SEA SSS SAM L4

=> s l4 full
FULL SEARCH INITIATED 15:24:22 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   2113 TO ITERATE

100.0% PROCESSED    2113 ITERATIONS                          6 ANSWERS
SEARCH TIME: 00.00.01

L6            6 SEA SSS FUL L4

=> fil caplus
COST IN U.S. DOLLARS                         SINCE FILE       TOTAL
                                               ENTRY         SESSION
FULL ESTIMATED COST                          310.84          311.05

FILE 'CAPLUS' ENTERED AT 15:24:26 ON 21 SEP 2004
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FILE COVERS 1907 - 21 Sep 2004   VOL 141 ISS 13
FILE LAST UPDATED: 20 Sep 2004   (20040920/ED)

   This file contains CAS Registry Numbers for easy and accurate
   substance identification.

=> s 16
L7   4 L6

=> d 17 1-4 abs ibib hitstr

AB   The title materials, which can be easily applied to electronic components
      and, after cyclization, have good insulating properties and resistance to
      chems. and heat, are poly(2-hydroxyamides) of specified structure.
Adding
      95 mmol 2,6-naphthalenedicarbonyl chloride to 100 mmol
      4,4'-(diphenylmethylene)bis(2-aminophenol) in N-methylpyrrolidone stirred
      at 10°, stirring for 1 h at 10° and 1 h at 20°,
      adding 10 mmol 5-norbornene-2,3-dicaboxylic anhydride in 50 mL
      γ-butyrolactone dropwise at 10°, and stirring at 10°
      for 1 h and 20° for 1 h gave a polymer (I). Spin-coating of a
      solution of I on a wafer, heating at 120, 200, and 425° for 1, 2, and
      60 min, resp., and determination of dielec constant and chemical
stability are
      exemplified.
ACCESSION NUMBER: 2004:5185 CAPLUS
DOCUMENT NUMBER: 140:78187
TITLE: Polymeric insulation for metalization with aluminum
                          and copper
INVENTOR(S):   Sezi, Recai; Walter, Andreas; Maltenberger, Anna;
                          Lowack, Klaus; Halik, Marcus
PATENT ASSIGNEE(S):   Infineon Technologies Ag, Germany
SOURCE: Eur. Pat. Appl., 41 pp.
                          CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

    PATENT NO.   KIND   DATE   APPLICATION NO.   DATE
    ---------------   ----   --------   --------------------   --------
    EP 1375563   A1   20040102   EP 2003-14160   20030624
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
           IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
    DE 10228769   A1   20040205   DE 2002-10228769   20020627
    CN 1472195   A   20040204   CN 2003-145750   20030627
    JP 2004099873   A2   20040402   JP 2003-184081   20030627
    US 2004082756   A1   20040429   US 2003-609453   20030627
PRIORITY APPLN. INFO.:   DE 2002-10228769   A 20020627

IT   **640298-31-3D**, end-capped with norbornenedicarboxylic anhydride,
      cyclized **640298-33-5D**, end-capped with norbornenedicarboxylic
      anhydride, cyclized **640298-39-1D**, end-capped with
      norbornenecarboxylic acid, cyclized **640298-42-6D**, cyclized
      RL: CPS (Chemical process); PEP (Physical, engineering or chemical
      process); PRP (Properties); TEM (Technical or engineered material use);
      PROC (Process); USES (Uses)
        (polymeric insulation for metalization with aluminum and copper)
RN   640298-31-3 CAPLUS
CN   2,6-Naphthalenedicarbonyl dichloride, polymer with 4,4'-
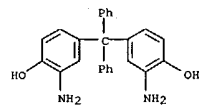   (diphenylmethylene)bis[2-aminophenol] (9CI) (CA INDEX NAME)

      CM   1

      CRN   20638-06-6
      CMF   C25 H22 N2 O2

      CM   2

      CRN   2351-36-2
      CMF   C12 H6 Cl2 O2

RN   640298-33-5 CAPLUS
CN   [1,1'-Biphenyl]-4,4'-dicarbonyl dichloride, polymer with
      4,4'-(diphenylmethylene)bis[2-aminophenol] (9CI) (CA INDEX NAME)

      CM   1

      CRN   20638-06-6
      CMF   C25 H22 N2 O2

      CM   2

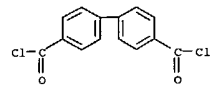   CRN   2351-37-3
      CMF   C14 H8 Cl2 O2
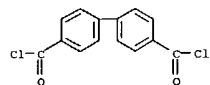
RN   640298-39-1 CAPLUS
CN   [1,1'-Biphenyl]-4,4'-dicarbonyl dichloride, polymer with
      1,4-benzenedicarbonyl dichloride and 4,4'-(diphenylmethylene)bis[2-
      aminophenol] (9CI) (CA INDEX NAME)

      CM   1
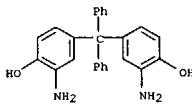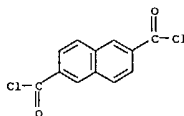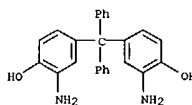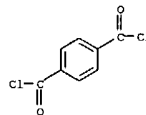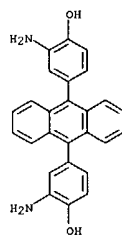
      CRN   20638-06-6
      CMF   C25 H22 N2 O2

      CM   2

      CRN   2351-37-3
      CMF   C14 H8 Cl2 O2

      CM   3

      CRN   100-20-9
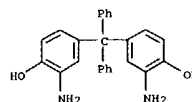   CMF   C8 H4 Cl2 O2

RN   640298-42-6 CAPLUS
CN   2,6-Naphthalenedicarbonyl dichloride, polymer with 4,4'-(9,10-
      anthracenediyl)bis[2-aminophenol], [1,1'-biphenyl]-4,4'-dicarbonyl
      dichloride and 4,4'-(diphenylmethylene)bis[2-aminophenol] (9CI) (CA
INDEX
      NAME)

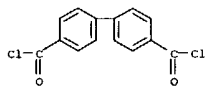   CM   1

      CRN   640298-41-5
      CMF   C26 H20 N2 O2

      CM   2

      CRN   20638-06-6
      CMF   C25 H22 N2 O2
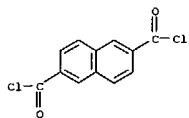
CM   3

CRN   2351-37-3
CMF   C14 H8 Cl2 O2

CM   4

CRN   2351-36-2
CMF   C12 H6 Cl2 O2

REFERENCE COUNT: 2   THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
                                     RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

AB   The title compds., useful in production of insulating polymers (e.g.,
      polybenzoxazoles, polybenzothiazoles), are prepared by nitr(os)ation of
the
      corresponding phenols and catalytic hydrogenation of the nitro(so)
compds.
          Adding 20 mL isoamyl nitrite dropwise to 57 mmol 4,4'-
      (diphenylmethylene)bisphenol in 100 mL AcOH at room temperature gave 91%
      4,4'-(diphenylmethylene)bis(2-nitrosophenol) (I). Hydrogenation of 50
      mmol I in 250 mL THF over 2.00 g 5% Pd/C catalyst at room temperature/2
bar for
          24 h gave 94% 4,4'-(diphenylmethylene)bis(2-aminophenol), isolated as the
      hydrochloride.
ACCESSION NUMBER: 2004:5168 CAPLUS
DOCUMENT NUMBER: 140:77566
TITLE: Preparation of bis-2-amino(thio)phenols for use in
                          heterocyclic polymers
INVENTOR(S):   Walter, Andreas; Gnuechtel, Ingo; Maltenberger, Anna;
                          Sezi, Recai; Hartmann, Horst
PATENT ASSIGNEE(S):   Infineon Technologies Ag, Germany
SOURCE: Eur. Pat. Appl., 17 pp.
                          CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1375471	A1	20040102	EP 2003-12042	20030528
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
DE 10228763	A1	20040129	DE 2002-10228763	20020627
JP 2004026831	A2	20040129	JP 2003-180250	20030624
CN 1470501	A	20040128	CN 2003-145282	20030627
US 2004049081	A1	20040311	US 2003-609456	20030627
PRIORITY APPLN. INFO.:			DE 2002-10228763	A 20020627

OTHER SOURCE(S):   MARPAT 140:77566
IT   20638-06-6P
      RL: IMF (Industrial manufacture); PREP (Preparation)
          (preparation of diaminobisphenols)
RN   20638-06-6 CAPLUS
CN   Phenol, 4,4'-(diphenylmethylene)bis[2-amino- (8CI, 9CI)   (CA INDEX NAME)

REFERENCE COUNT: 3   THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
                                     RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

AB   The title compds. are prepared by reduction of bis-ortho-nitrophenols.
To
      increase the purity and the yield (up to 96%) of the product, the process
      involves electrochem. reduction on a Pb cathode in a HCl solution of
MeOH, at a
      c.d. of 0.5-3 A/sq dm at 25-35°, in the presence of SnCl2.
ACCESSION NUMBER: 1970:74128 CAPLUS
DOCUMENT NUMBER: 72:74128
TITLE: Aminobisphenols
INVENTOR(S):   Korshak, V. V.; Tseitlin, G. M.; Kruglikov, S. S.;
                          Pavlov, A. I.
PATENT ASSIGNEE(S):   Mendeleev, D. I., Chemical-Technological Institute,
                          Moscow
SOURCE: U.S.S.R. From: Otkrytiya, Izobret., Prom. Obraztsy,
                          Tovarnye Znaki 1969, 46(26), 25.
                          CODEN: URXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Russian
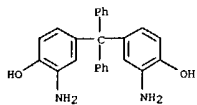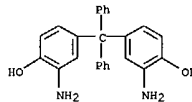FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
SU 250155		19690812	SU	19650720

IT   20638-06-6P
      RL: PREP (Preparation)
          (manufacture of, by electrochem. reduction of nitro compound)
RN   20638-06-6 CAPLUS
CN   Phenol, 4,4'-(diphenylmethylene)bis[2-amino- (8CI, 9CI)   (CA INDEX NAME)

AB   The condensation of dicarboxylic acid esters with bisphenols containing
an NH2
      group ortho to the OH groups gave a series of polybenzoxazoles. The
      following were prepared using V. .V. Korshak's 1966 procedure (diacid and
      phenol given): isophthalic acid (I),
bis(3-amino-4-hydroxyphenyl)methane;
      sebacic acid (II), α,α-bis(3-4-hydroxyphenyl)ethylbenzene
      (III); adipic acid (IV), III; O(CH2CO2H)2, III; I, III; terephthalic acid
      (V), III; O(C6H4-CO2H-p)2, III; 2,5-furandicarboxylic acid (VI), III; I,
      bis(3-amino-4-hydroxyphenyl)diphenylmethane; II, 9,9-bis(3-amino-4-
      hydroxyphenyl)fluorene (VII); IV, VII; O(CH2CO2H)2, VII; I, VII; V, VII;
      O(C6H4CO2H-p)2, VII; VI, VII. The reduced' viscosities and initial
      decomposition temps. of the polymers were determined The polymers based
on aromatic
      diacids are relatively stable to alkaline or acid hydrolysis,
acidolysis, or
      aminolysis, while those containing aliphatic chains are easily degraded
by
      aminolysis, acidolysis, or hydrolysis.
ACCESSION NUMBER: 1969:68812 CAPLUS
DOCUMENT NUMBER: 70:68812
TITLE: Effect of the structure of some polybenzoxazoles on
                          their properties
AUTHOR(S):   Korshak, V. V.; Tseitlin, G. M.; Pavlov, A. I.
CORPORATE SOURCE: Mosk. Khim.-Tekhnol. Inst. im. Mendeleeva, Moscow,
                          USSR
SOURCE: Vysokomolekulyarnye Soedineniya, Seriya A (1969),
                          11(1), 11-15
                          CODEN: VYSAAF; ISSN: 0507-5475
DOCUMENT TYPE: Journal
LANGUAGE: Russian
IT   28572-42-1P
      RL: SPN (Synthetic preparation); PREP (Preparation)
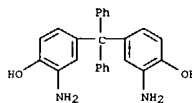   (preparation of, ring closure in)
RN   28572-42-1 CAPLUS
CN   Isophthalic acid, polymer with 4,4'-(diphenylmethylene)bis[2-aminophenol]
      (8CI)   (CA INDEX NAME)

CM   1

CRN   20638-06-6
CMF   C25 H22 N2 O2

CM   2

CRN   121-91-5
CMF   C8 H6 O4

HO₂C─⟨benzene ring⟩─CO₂H
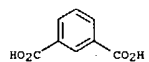
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=> fil reg
COST IN U.S. DOLLARS                               SINCE FILE        TOTAL
                                                       ENTRY      SESSION
FULL ESTIMATED COST                                    21.24       332.29


DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)         SINCE FILE        TOTAL
                                                       ENTRY      SESSION
CA SUBSCRIBER PRICE                                    -2.80        -2.80


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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.


STRUCTURE FILE UPDATES:   20 SEP 2004   HIGHEST RN 748739-98-2
DICTIONARY FILE UPDATES:  20 SEP 2004   HIGHEST RN 748739-98-2

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

    Please note that search-term pricing does apply when
    conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html


=>
Uploading C:\Program Files\Stnexp\Queries\10609456.str
```



```
chain nodes :
7  9  11  15
ring nodes :
1  2  3  4  5  6  12  13  14  16  17  18  19  20  21  22
chain bonds :
2-9  3-7  11-12  14-15
ring bonds :
1-2  1-6  2-3  3-4  4-5  5-6  12-13  12-16  12-19  13-14  14-18  14-21  16-17
17-18  17-22  19-20  20-21  20-22
exact/norm bonds :
2-9  3-7  11-12  12-13  12-16  12-19  13-14  14-15  14-18  14-21  16-17  17-18
17-22  19-20  20-21  20-22
normalized bonds :
1-2  1-6  2-3  3-4  4-5  5-6
```
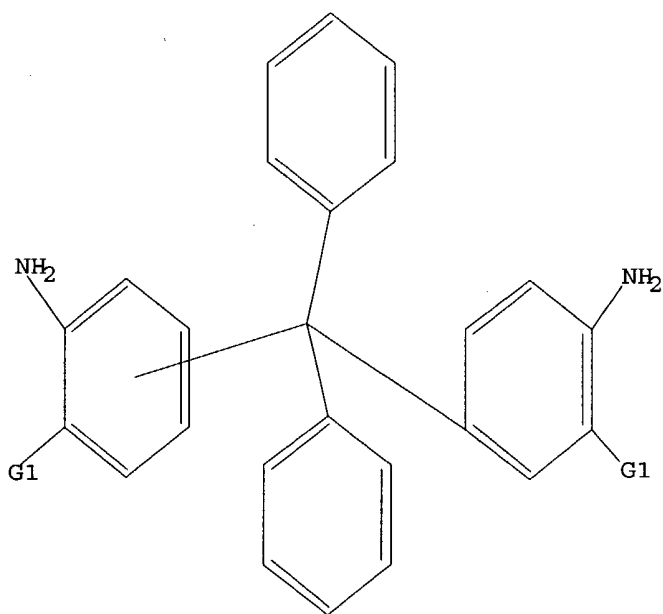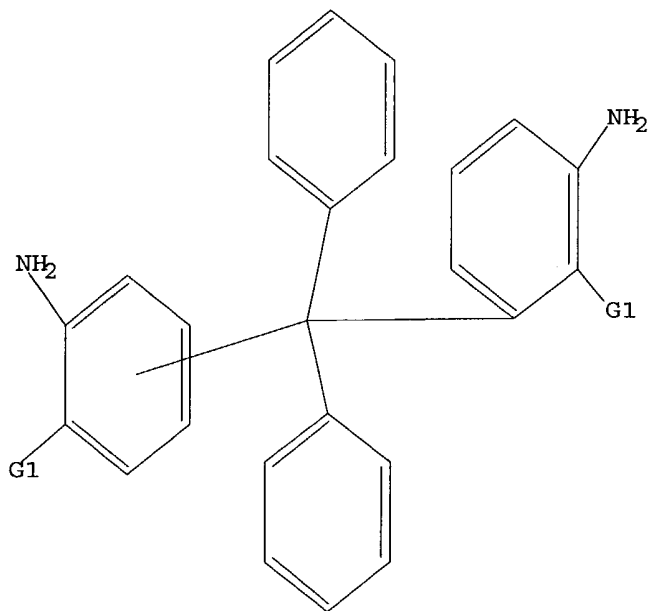
G1:O,S

G2:C,O,S,N

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:CLASS 11:CLASS 12:Atom
 13:Atom 14:Atom 15:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom
22:Atom 23:CLASS

L8   STRUCTURE UPLOADED

=> d query
L8   STR

G1 O,S

Structure attributes must be viewed using STN Express query preparation.

=> s l8
SAMPLE SEARCH INITIATED 15:27:59 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   26 TO ITERATE

100.0% PROCESSED   26 ITERATIONS   0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE   **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS: 215 TO   825
PROJECTED ANSWERS: 0 TO   0

L9   0 SEA SSS SAM L8

=> s 18 full
FULL SEARCH INITIATED 15:28:03 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   544 TO ITERATE

100.0% PROCESSED   544 ITERATIONS   0 ANSWERS
SEARCH TIME: 00.00.01

L10   0 SEA SSS FUL L8

=>
Uploading C:\Program Files\Stnexp\Queries\10609456.str
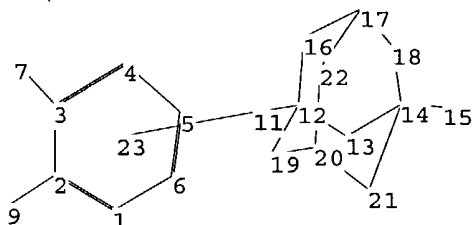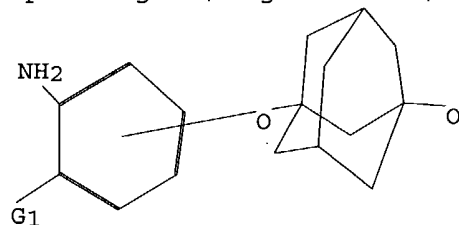
chain nodes :
7 9 11 15
ring nodes :
1 2 3 4 5 6 12 13 14 16 17 18 19 20 21 22
chain bonds :
2-9 3-7 11-12 14-15
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 12-13 12-16 12-19 13-14 14-18 14-21 16-17
17-18 17-22 19-20 20-21 20-22
exact/norm bonds :
2-9 3-7 11-12 12-13 12-16 12-19 13-14 14-15 14-18 14-21 16-17 17-18
17-22 19-20 20-21 20-22
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6

G1:O,S

G2:C,O,S,N

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:CLASS 11:CLASS 12:Atom
 13:Atom 14:Atom 15:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom
22:Atom 23:CLASS

L11   STRUCTURE UPLOADED

=> d query
L11   STR

G1 O,S

Structure attributes must be viewed using STN Express query preparation.


```
=> s l11
SAMPLE SEARCH INITIATED 15:28:46 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      26 TO ITERATE

100.0% PROCESSED       26 ITERATIONS                          0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:         215 TO        825
PROJECTED ANSWERS:              0 TO          0

L12           0 SEA SSS SAM L11

=> s l11 full
FULL SEARCH INITIATED 15:28:50 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    571 TO ITERATE

100.0% PROCESSED      571 ITERATIONS                          0 ANSWERS
SEARCH TIME: 00.00.01

L13           0 SEA SSS FUL L11

=>
Uploading C:\Program Files\Stnexp\Queries\10609456.str
```
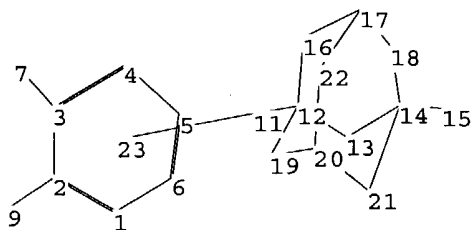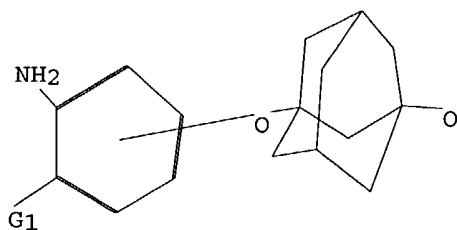
```
chain nodes :
7  9  11  15
ring nodes :
1  2  3  4  5  6  12  13  14  16  17  18  19  20  21  22
chain bonds :
2-9  3-7  11-12  14-15
ring bonds :
1-2  1-6  2-3  3-4  4-5  5-6  12-13  12-16  12-19  13-14  14-18  14-21  16-17
17-18  17-22  19-20  20-21  20-22
exact/norm bonds :
2-9  3-7  11-12  12-13  12-16  12-19  13-14  14-15  14-18  14-21  16-17  17-18
17-22  19-20  20-21  20-22
normalized bonds :
1-2  1-6  2-3  3-4  4-5  5-6
```

G1:O,S

G2:C,O,S,N

```
Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:CLASS  9:CLASS  11:CLASS  12:Atom
 13:Atom  14:Atom  15:CLASS  16:Atom  17:Atom  18:Atom  19:Atom  20:Atom  21:Atom
22:Atom  23:CLASS
```

L14   STRUCTURE UPLOADED

```
=>  d query
L14                STR
```
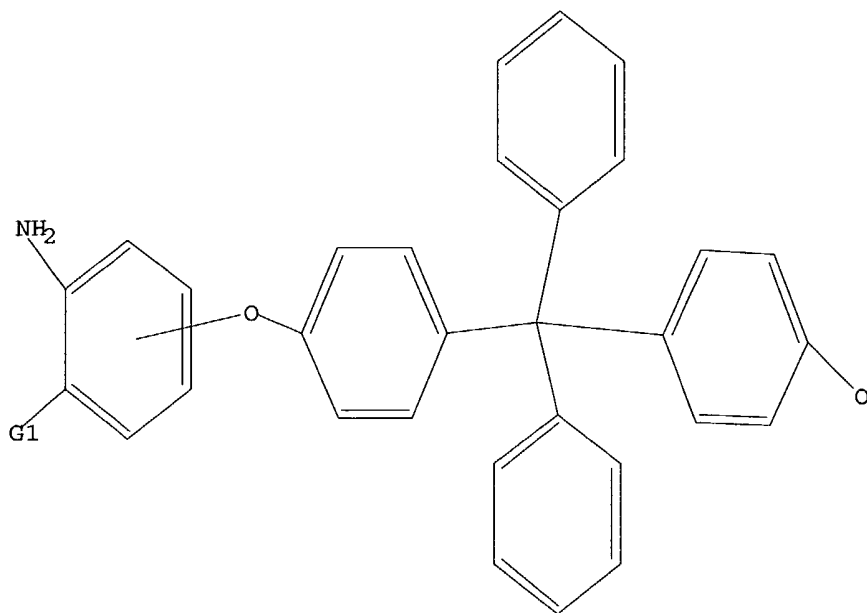
G1 O,S

Structure attributes must be viewed using STN Express query preparation.

=> s l14
SAMPLE SEARCH INITIATED 15:31:36 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   84 TO ITERATE

100.0% PROCESSED   84 ITERATIONS   1 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS: 1131 TO   2229
PROJECTED ANSWERS: 1 TO   80

L15   1 SEA SSS SAM L14

=> s l14 full
FULL SEARCH INITIATED 15:31:52 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   1765 TO ITERATE

100.0% PROCESSED   1765 ITERATIONS   6 ANSWERS
SEARCH TIME: 00.00.01

L16   6 SEA SSS FUL L14

=> fil caplus
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                                  ENTRY   SESSION
FULL ESTIMATED COST   468.36   800.65

Page 15

```
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)        SINCE FILE      TOTAL
                                                    ENTRY       SESSION
CA SUBSCRIBER PRICE                                  0.00        -2.80
```

FILE COVERS 1907 - 21 Sep 2004   VOL 141 ISS 13
FILE LAST UPDATED: 20 Sep 2004   (20040920/ED)

    This file contains CAS Registry Numbers for easy and accurate
    substance identification.

=> s l16
L17   2 L16

=> d l17 1-2 abs ibib hitstr

AB The title materials, which can be easily applied to electronic components and, after cyclization, have good insulating properties and resistance to chems. and heat, are poly(2-hydroxyamides) of specified structure.
Adding
95 mmol 2,6-naphthalenedicarbonyl chloride to 100 mmol 4,4'-(diphenylmethylene)bis(2-aminophenol) in N-methylpyrrolidone stirred at 10°, stirring for 1 h at 10° and 1 h at 20°,
adding 10 mmol 5-norbornene-2,3-dicarboxylic anhydride in 50 mL γ-butyrolactone dropwise at 10°, and stirring at 10° for 1 h and 20° for 1 h gave a polymer (I). Spin-coating of a solution of I on a wafer, heating at 120, 200, and 425° for 1, 2, and 60 min, resp., and determination of dielec constant and chemical stability are
exemplified.

ACCESSION NUMBER: 2004:5185 CAPLUS
DOCUMENT NUMBER: 140:78187
TITLE: Polymeric insulation for metalization with aluminum and copper
INVENTOR(S):   Sezi, Recai; Walter, Andreas; Maltenberger, Anna; Lowack, Klaus; Halik, Marcus
PATENT ASSIGNEE(S):   Infineon Technologies Ag, Germany
SOURCE: Eur. Pat. Appl., 41 pp.
                          CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1375563	A1	20040102	EP 2003-14160	20030624
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
DE 10228769	A1	20040205	DE 2002-10228769	20020627
CN 1472195	A	20040204	CN 2003-145750	20030627
JP 2004099873	A2	20040402	JP 2003-184081	20030627
US 2004082756	A1	20040429	US 2003-609453	20030627

PRIORITY APPLN. INFO.:   DE 2002-10228769   A 20020627

IT **640298-36-8**D, end-capped with methacrylic acid, cyclized
    640298-38-0D, cyclized **640298-40-4**D, end-capped with
    norbornenecarboxylic acid, cyclized **640298-45-9**D, end-capped
    with norbornenedicarboxylic anhydride, cyclized
    RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); PRP (Properties); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
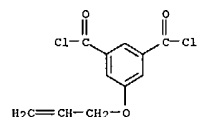   (polymeric insulation for metalization with aluminum and copper)
RN 640298-36-8 CAPLUS
CN 1,4-Benzenedicarbonyl dichloride, polymer with 3,3'-[(diphenylmethylene)bis(4,1-phenyleneoxy)]bis[6-aminophenol] (9CI) (CA INDEX NAME)

    CM   1

    CRN 640298-35-7
    CMF C37 H30 N2 O4

    CM   2

    CRN 100-20-9
    CMF C8 H4 Cl2 O2

RN 640298-38-0 CAPLUS
CN Carbonic acid, polymer with 3,3'-[(diphenylmethylene)bis(4,1-phenyleneoxy)]bis[6-aminophenol], 1,6-hexanediol, 5-(phenylethynyl)-1,3-benzenedicarbonyl dichloride and 5-(2-propenyloxy)-1,3-benzenedicarbonyl dichloride, block (9CI) (CA INDEX NAME)

    CM   1

    CRN 640298-35-7
    CMF C37 H30 N2 O4

    CM   2

    CRN 393543-14-1
    CMF C16 H8 Cl2 O2

    CM   3

    CRN 169203-74-1
    CMF C11 H8 Cl2 O3

    CM   4

    CRN 629-11-8
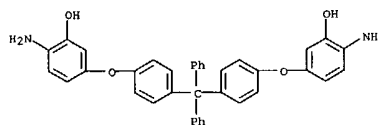   CMF C6 H14 O2

HO—(CH2)6—OH

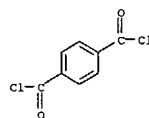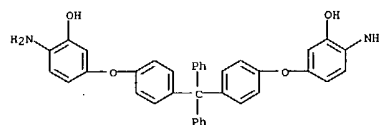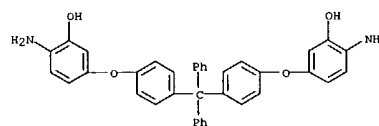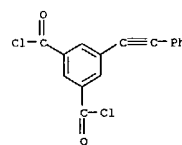   CM   5

    CRN 463-79-6
    CMF C H2 O3

RN 640298-40-4 CAPLUS
CN 1,3-Benzenedicarbonyl dichloride, 5-(phenylethynyl)-, polymer with 3,3'-[(diphenylmethylene)bis(4,1-phenyleneoxy)]bis[6-aminophenol] and 4,4'-oxybis[benzoyl chloride] (9CI) (CA INDEX NAME)

    CM   1

    CRN 640298-35-7
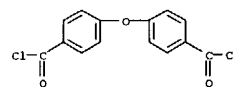

    CMF C37 H30 N2 O4

    CM   2

    CRN 393543-14-1
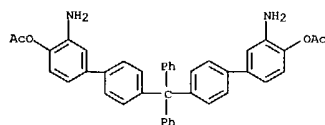   CMF C16 H8 Cl2 O2

    CM   3

    CRN 7158-32-9
    CMF C14 H8 Cl2 O3

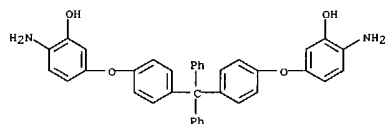RN 640298-45-9 CAPLUS
CN Benzoyl chloride, 4,4'-oxybis-, polymer with (diphenylmethylene)bis(3-amino[1,1'-biphenyl]-4',4-diyl) diacetate and 3,3'-[(diphenylmethylene)bis(4,1-phenyleneoxy)]bis[6-aminophenol] (9CI) (CA INDEX NAME)
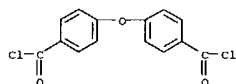
    CM   1

    CRN 640298-44-8
    CMF C41 H34 N2 O4

CM 2

CRN 640298-35-7
CMF C37 H30 N2 O4

CM 3

CRN 7158-32-9
CMF C14 H8 Cl2 O3

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
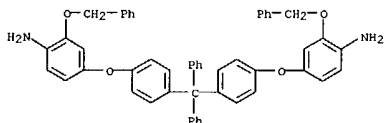RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

AB The title compds., useful in production of insulating polymers (e.g.,
polybenzoxazoles, polybenzothiazoles), are prepared by nitr(os)ation of
the
corresponding phenols and catalytic hydrogenation of the nitro(so)
compds.
Adding 20 mL isoamyl nitrite dropwise to 57 mmol 4,4'-
(diphenylmethylene)bisphenol in 100 mL AcOH at room temperature gave 91%
4,4'-(diphenylmethylene)bis(2-nitrosophenol) (I). Hydrogenation of 50
mmol I in 250 mL THF over 2.00 g 5% Pd/C catalyst at room temperature/2
bar for
24 h gave 94% 4,4'-(diphenylmethylene)bis(2-aminophenol), isolated as the
hydrochloride.

ACCESSION NUMBER: 2004:5168 CAPLUS
DOCUMENT NUMBER: 140:77566
TITLE: Preparation of bis-2-amino(thio)phenols for use in
heterocyclic polymers
INVENTOR(S): Walter, Andreas; Gnuechtel, Ingo; Maltenberger, Anna;
Sezi, Recai; Hartmann, Horst
PATENT ASSIGNEE(S): Infineon Technologies Ag, Germany
SOURCE: Eur. Pat. Appl., 17 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1375471	A1	20040102	EP 2003-12042	20030528
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
DE 10228763	A1	20040129	DE 2002-10228763	20020627
JP 2004026831	A2	20040129	JP 2003-180250	20030624
CN 1470501	A	20040128	CN 2003-145282	20030627
US 2004049081	A1	20040311	US 2003-609456	20030627

PRIORITY APPLN. INFO.: DE 2002-10228763 A 20020627

OTHER SOURCE(S): MARPAT 140:77566
IT 640289-17-4P
RL: IMF (Industrial manufacture); PREP (Preparation)
(preparation of diaminobisphenols)
RN 640289-17-4 CAPLUS
CN Benzenamine, 4,4'-[(diphenylmethylene)bis(4,1-phenyleneoxy)]bis[2-
(phenylmethoxy)-, dihydrochloride (9CI) (CA INDEX NAME)

●2 HCl

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

```
=> fil reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                        ENTRY      SESSION
FULL ESTIMATED COST                                     10.40      811.05


DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                        ENTRY      SESSION
CA SUBSCRIBER PRICE                                     -1.40       -4.20
```

FILE 'REGISTRY' ENTERED AT 15:33:21 ON 21 SEP 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2004 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 20 SEP 2004   HIGHEST RN 748739-98-2
DICTIONARY FILE UPDATES: 20 SEP 2004   HIGHEST RN 748739-98-2
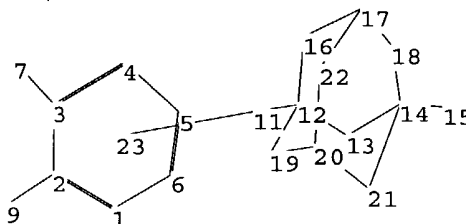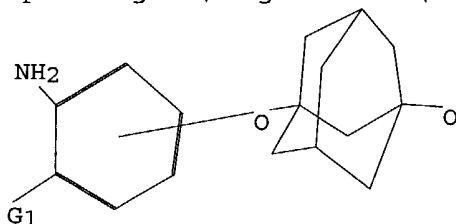
TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

   Please note that search-term pricing does apply when
   conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Program Files\Stnexp\Queries\10609456.str

chain nodes :
7 9 11 15
ring nodes :
1 2 3 4 5 6 12 13 14 16 17 18 19 20 21 22
chain bonds :
2-9 3-7 11-12 14-15
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 12-13 12-16 12-19 13-14 14-18 14-21 16-17
17-18 17-22 19-20 20-21 20-22
exact/norm bonds :
2-9 3-7 11-12 12-13 12-16 12-19 13-14 14-15 14-18 14-21 16-17 17-18
17-22 19-20 20-21 20-22
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
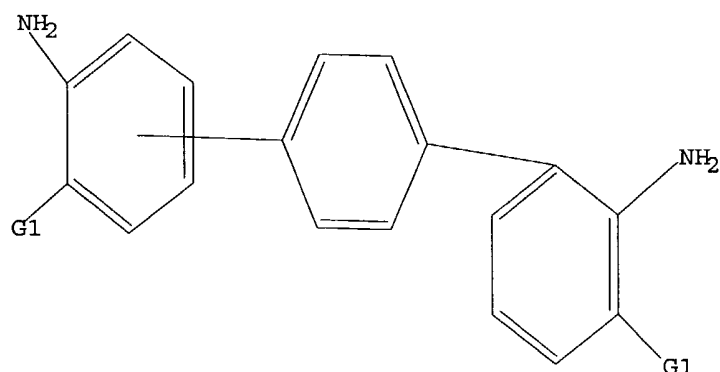
G1:O,S

G2:C,O,S,N

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:CLASS 11:CLASS 12:Atom
 13:Atom 14:Atom 15:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom
22:Atom 23:CLASS

L18   STRUCTURE UPLOADED

=> d query
L18   STR

G1 O,S

Structure attributes must be viewed using STN Express query preparation.

=> s l18
SAMPLE SEARCH INITIATED 15:36:18 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   42 TO ITERATE

100.0% PROCESSED   42 ITERATIONS   0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS: 452 TO   1228
PROJECTED ANSWERS: 0 TO   0

L19   0 SEA SSS SAM L18

=> s l18 full
FULL SEARCH INITIATED 15:36:21 FILE 'REGISTRY'
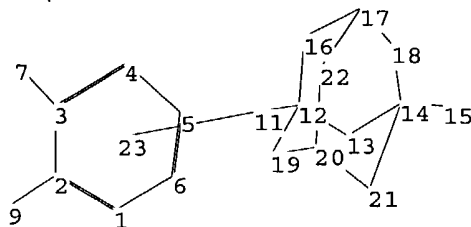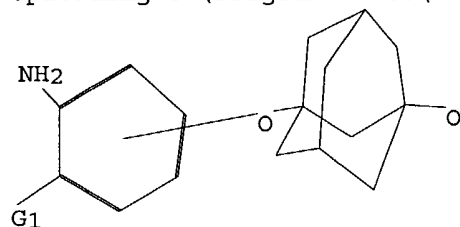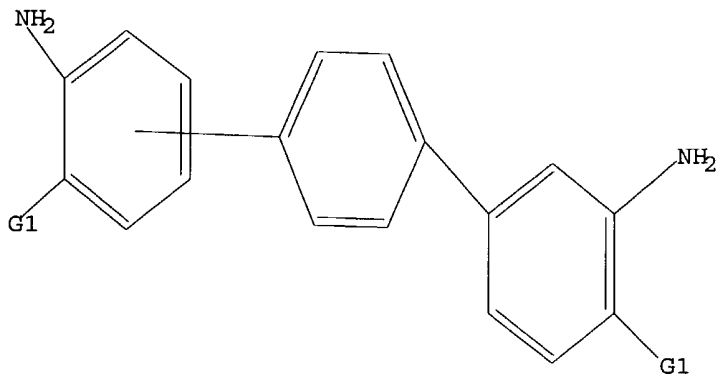FULL SCREEN SEARCH COMPLETED -   788 TO ITERATE

100.0% PROCESSED   788 ITERATIONS   0 ANSWERS
SEARCH TIME: 00.00.01

=>
Uploading C:\Program Files\Stnexp\Queries\10609456.str

chain nodes :
7 9 11 15
ring nodes :
1 2 3 4 5 6 12 13 14 16 17 18 19 20 21 22
chain bonds :
2-9 3-7 11-12 14-15
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 12-13 12-16 12-19 13-14 14-18 14-21 16-17
17-18 17-22 19-20 20-21 20-22
exact/norm bonds :
2-9 3-7 11-12 12-13 12-16 12-19 13-14 14-15 14-18 14-21 16-17 17-18
17-22 19-20 20-21 20-22
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6

G1:O,S

G2:C,O,S,N

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:CLASS 11:CLASS 12:Atom
 13:Atom 14:Atom 15:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom
22:Atom 23:CLASS

L21   STRUCTURE UPLOADED

=> d query
L21   STR

G1 O,S

Structure attributes must be viewed using STN Express query preparation.

=> s l21
SAMPLE SEARCH INITIATED 15:36:51 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   201 TO ITERATE

100.0% PROCESSED   201 ITERATIONS   0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE   **COMPLETE**
                         BATCH   **COMPLETE**
PROJECTED ITERATIONS: 3170 TO   4870
PROJECTED ANSWERS: 0 TO   0

L22   0 SEA SSS SAM L21

=> s l21 full
FULL SEARCH INITIATED 15:36:55 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   4250 TO ITERATE

100.0% PROCESSED   4250 ITERATIONS   3 ANSWERS
SEARCH TIME: 00.00.01

L23   3 SEA SSS FUL L21

=> fil caplus
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                               ENTRY   SESSION
FULL ESTIMATED COST   312.52   1123.57

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE   TOTAL
                                               ENTRY   SESSION
CA SUBSCRIBER PRICE   0.00   -4.20

FILE 'CAPLUS' ENTERED AT 15:36:59 ON 21 SEP 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE COVERS 1907 - 21 Sep 2004   VOL 141 ISS 13
FILE LAST UPDATED: 20 Sep 2004   (20040920/ED)

   This file contains CAS Registry Numbers for easy and accurate
   substance identification.

=> s l23
L24   1 L23

=> d l24 abs ibib hitstr

AB The title materials, which can be easily applied to electronic components and, after cyclization, have good insulating properties and resistance to chems. and heat, are poly(2-hydroxyamides) of specified structure.
Adding
95 mmol 2,6-naphthalenedicarbonyl chloride to 100 mmol 4,4'-(diphenylmethylene)bis(2-aminophenol) in N-methylpyrrolidone stirred at 10°, stirring for 1 h at 10° and 1 h at 20°,
adding 10 mmol 5-norbornene-2,3-dicaboxylic anhydride in 50 mL γ-butyrolactone dropwise at 10°, and stirring at 10°
for 1 h and 20° for 1 h gave a polymer (I). Spin-coating of a solution of I on a wafer, heating at 120, 200, and 425° for 1, 2, and 60 min, resp., and determination of dielec constant and chemical stability are
exemplified.

ACCESSION NUMBER:	2004:5185 CAPLUS
DOCUMENT NUMBER:	140:78187
TITLE:	Polymeric insulation for metalization with aluminum and copper
INVENTOR(S):	Sezi, Recai; Walter, Andreas; Maltenberger, Anna; Lowack, Klaus; Halik, Marcus
PATENT ASSIGNEE(S):	Infineon Technologies Ag, Germany
SOURCE:	Eur. Pat. Appl., 41 pp.
	CODEN: EPXXDW
DOCUMENT TYPE:	Patent
LANGUAGE:	German
FAMILY ACC. NUM. COUNT:	1
PATENT INFORMATION:	

| PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1375563	A1	20040102	EP 2003-14160	20030624
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,			
	IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
DE 10228769	A1	20040205	DE 2002-10228769	20020627
CN 1472195	A	20040204	CN 2003-145750	20030627
JP 2004099873	A2	20040402	JP 2003-184081	20030627
US 2004082756	A1	20040429	US 2003-609453	20030627
PRIORITY APPLN. INFO.:			DE 2002-10228769	A 20020627

IT **640298-42-6D**, cyclized **640298-43-7D**, end-capped with methacrylic acid, cyclized
RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); PRP (Properties); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
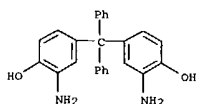(polymeric insulation for metalization with aluminum and copper)
RN 640298-42-6 CAPLUS
CN 2,6-Naphthalenedicarbonyl dichloride, polymer with 4,4'-(9,10-anthracenediyl)bis[2-aminophenol], [1,1'-biphenyl]-4,4'-dicarbonyl dichloride and 4,4'-(diphenylmethylene)bis[2-aminophenol] (9CI) (CA INDEX NAME)

CM 1

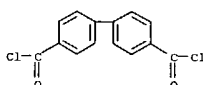CRN 640298-41-5
CMF C26 H20 N2 O2

CM 2

CRN 20638-06-6
CMF C25 H22 N2 O2

CM 3

CRN 2351-37-3
CMF C14 H8 Cl2 O2

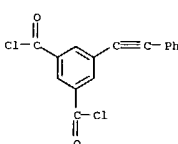CM 4
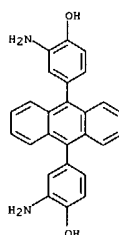
CRN 2351-36-2
CMF C12 H6 Cl2 O2
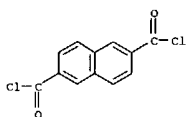
RN 640298-43-7 CAPLUS
CN 2,6-Naphthalenedicarbonyl dichloride, polymer with 4,4'-(9,10-anthracenediyl)bis[2-aminophenol], 4,4'-diamino[1,1'-biphenyl]-3,3'-diol and 5-(phenylethynyl)-1,3-benzenedicarbonyl dichloride (9CI) (CA INDEX NAME)
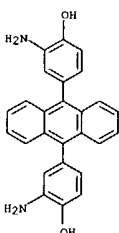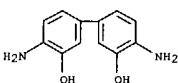
CM 1

CRN 640298-41-5
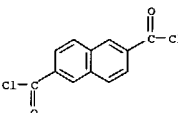CMF C26 H20 N2 O2

CM 2

CRN 393543-14-1
CMF C16 H8 Cl2 O2

CM 3

CRN 2373-98-0
CMF C12 H12 N2 O2

CM 4

CRN 2351-36-2
CMF C12 H6 Cl2 O2

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

Page 24

```
=> fil reg
```

```
=>
Uploading C:\Program Files\Stnexp\Queries\10609456.str
```



```
chain nodes :
7  9  11  15
ring nodes :
1  2  3  4  5  6  12  13  14  16  17  18  19  20  21  22
chain bonds :
2-9  3-7  11-12  14-15
ring bonds :
1-2  1-6  2-3  3-4  4-5  5-6  12-13  12-16  12-19  13-14  14-18  14-21  16-17
17-18  17-22  19-20  20-21  20-22
exact/norm bonds :
2-9  3-7  11-12  12-13  12-16  12-19  13-14  14-15  14-18  14-21  16-17  17-18
17-22  19-20  20-21  20-22
normalized bonds :
1-2  1-6  2-3  3-4  4-5  5-6
```

G1:O,S

G2:C,O,S,N

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:CLASS 11:CLASS 12:Atom
 13:Atom 14:Atom 15:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom
22:Atom 23:CLASS

L25   STRUCTURE UPLOADED

=> d query
L25   STR
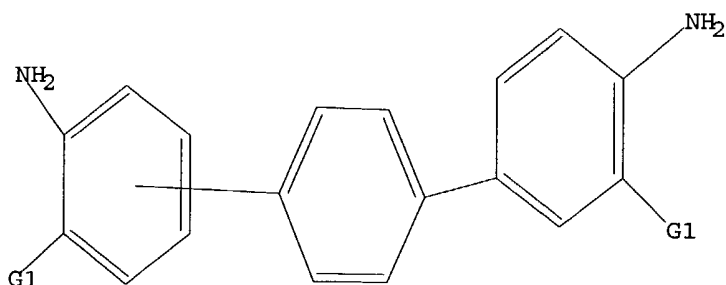
G1 O,S

Structure attributes must be viewed using STN Express query preparation.

=> s l25
SAMPLE SEARCH INITIATED 15:38:10 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   245 TO ITERATE

100.0% PROCESSED   245 ITERATIONS   0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS: 3961 TO   5839
PROJECTED ANSWERS: 0 TO   0

L26   0 SEA SSS SAM L25

=> s l25 full
FULL SEARCH INITIATED 15:38:14 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   6167 TO ITERATE

100.0% PROCESSED   6167 ITERATIONS   5 ANSWERS
SEARCH TIME: 00.00.01

L27   5 SEA SSS FUL L25

Page 26

```
=> fil caplus
COST IN U.S. DOLLARS                                  SINCE FILE        TOTAL
                                                         ENTRY        SESSION
FULL ESTIMATED COST                                     155.42        1284.19


DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)            SINCE FILE        TOTAL
                                                         ENTRY        SESSION
CA SUBSCRIBER PRICE                                       0.00          -4.90
```

FILE COVERS 1907 - 21 Sep 2004   VOL 141 ISS 13
FILE LAST UPDATED: 20 Sep 2004   (20040920/ED)

   This file contains CAS Registry Numbers for easy and accurate
   substance identification.


```
=> s 127
L28          2 L27

=> d 128 1-2 abs ibib hitstr
```

AB   Rigid-rod macromonomers having a polyarom. backbone, solubilizing side
      groups, and reactive end groups are prepared and chemical incorporated
into
      polymer systems to provide strong, stiffened polymers. Thus, stirring
      6.94 mmol 2,5-dichloro-4'-methylbenzophenone and 1.88 mmol Me
      3-chlorobenzoate with bis(triphenylphosphine)nickel(II) chloride 0.77,
      PPh3 1.53, NaI 1.17, and activated Zn powder 15.3 mmol in
      N-methylpyrrolidinone at 50° for 18 h gave a macromonomer with
      weight-average mol. weight 14,000 and polydispersity 1.4.
ACCESSION NUMBER: 1993:650764 CAPLUS
DOCUMENT NUMBER: 119:250764
TITLE: Macromonomers having reactive end groups
INVENTOR(S):   Gagne, Robert R.; Marrocco, Matthew Louis, III;
                       Trimmer, Mark Steven; Hendricks, Neil H.
PATENT ASSIGNEE(S):   Maxdem Inc., USA
SOURCE: PCT Int. Appl., 100 pp.
                       CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9304099	A1	19930304	WO 1992-US5889	19920714
W: CA, JP, KR				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE				
US 5373056	A	19941213	US 1991-746917	19910819
CA 2115143	C	20021119	CA 1992-2115143	19920214
EP 599886	A1	19940608	EP 1992-916566	19920714
EP 599886	B1	20010321		
R: DE, FR, GB, IT, NL				
JP 06510315	T2	19941117	JP 1993-504293	19920714
JP 3245163	B2	20020107		
US 5670564	A	19970923	US 1995-457092	19950601
US 5824744	A	19981020	US 1995-457268	19950601
US 5827927	A	19981027	US 1996-645914	19960514
US 5973075	A	19991026	US 1998-93746	19980608
PRIORITY APPLN. INFO.:			US 1991-746917	A 19910819
			WO 1992-US5889	W 19920714
			US 1994-331144	B3 19941027
			US 1995-457268	A3 19950601

IT   151172-64-4P
      RL: PREP (Preparation)
      (macromonomer, preparation and polymerization of, for manufacture of
stiffened
      thermoplastics)
RN   151172-64-4 CAPLUS
CN   Poly([1,1':4',1''-terphenyl]-2',5'-diyl], α,ω-bis(4-amino-5-
      methoxy-2-methylphenyl)- (9CI) (CA INDEX NAME)

AB   The title varnishes with viscosity (A) < 0.1 P contain phenylene,
biphenyl
      or tri-Ph tetracarboxylic dianhydrides and aromatic diamines H2NYNH2,
      H2NYY1NH2, N2NYY1Y2NH2, H2NYXY1NH2 [X = 0, SO2, C(CF3)2; Y = C6H4-nRn;
Y1
      = C6H4-nR1n R, R1 = NO2, CN, methylsulfinyl; n = 1-4]. Thus, a 42%
      varnish (A 0.05 P) of 1:1 2-nitro-1,4-diaminobenzene and
      1-trifluoromethyl-2,3,5,6-benzene tetracarboxylic dianhydride gave a film
      with heat resistance (3% loss over 100 min) 480°, tensile strength
      33.0 kg/mm2, dielec. constant 2.9 and smoothness [1-ΔH/H = ΔH, H
      = the unevenness of the film and substrate (e.g. printed circuit), resp.]
      0.76.
ACCESSION NUMBER: 1992:513668 CAPLUS
DOCUMENT NUMBER: 117:113668
TITLE: Low viscosity aromatic polyimide varnishes for smooth
                       electric insulators
INVENTOR(S):   Shimanoki, Hisae; Okabe, Yoshiaki; Miwa, Takao;
                       Numata, Shunichi; Ikeda, Takae
PATENT ASSIGNEE(S):   Hitachi Seisakusho K. K., Japan; Hitachi Kasei Kogyo
                       K. K.
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
                       CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04077587	A2	19920311	JP 1990-186380	19900713
PRIORITY APPLN. INFO.:			JP 1990-186380	19900713

OTHER SOURCE(S):   MARPAT 117:113668
IT   143133-07-7 143133-16-8 143201-82-5
      RL: PRP (Properties); TEM (Technical or engineered material use); USES
      (Uses)
      (low viscosity varnishes, for smooth elec. insulators)
RN   143133-07-7 CAPLUS
CN   1H,3H-Benzo[1,2-c:4,5-c']difuran-1,3,5,7-tetrone, 4-(trifluoromethyl)-,
      polymer with 2',3,3''-tris(methylsulfinyl)[1,1':4',1''-terphenyl]-4,4''-
      diamine (9CI) (CA INDEX NAME)

      CM   1

      CRN   143133-06-6
      CMF   C21 H22 N2 O3 S3
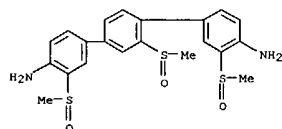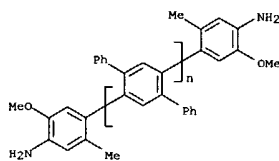
      CM   2

      CRN   114349-13-2
      CMF   C11 H F3 O6

RN   143133-16-8 CAPLUS
CN   [5,5'-Biisobenzofuran]-1,1',3,3'-tetrone, 7,7'-difluoro-, polymer with
      2',3,3''-tris(methylsulfinyl)[1,1':4',1''-terphenyl]-4,4''-diamine (9CI)
      (CA INDEX NAME)

      CM   1

      CRN   143133-13-5
      CMF   C16 H4 F2 O6

      CM   2
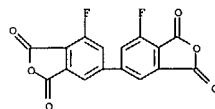
      CRN   143133-06-6
      CMF   C21 H22 N2 O3 S3
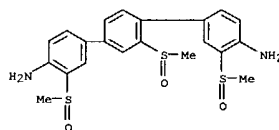
RN   143201-82-5 CAPLUS
CN   1,3-Isobenzofurandione, 5,5'-[2-(trifluoromethoxy)-1,4-phenylene]bis[7-
      (trifluoromethoxy)-, polymer with
      2',3,3''-tris(methylsulfinyl)[1,1':4',1'
      '-terphenyl]-4,4''-diamine (9CI) (CA INDEX NAME)
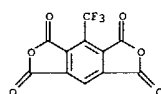
CM   1

CRN 143133-21-5
CMF C25 H7 F9 O9

CM   2

CRN 143133-06-6
CMF C21 H22 N2 O3 S3

```
=> fil reg
COST IN U.S. DOLLARS                              SINCE FILE      TOTAL
                                                      ENTRY     SESSION
FULL ESTIMATED COST                                    9.96     1294.15


DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)        SINCE FILE      TOTAL
                                                      ENTRY     SESSION
CA SUBSCRIBER PRICE                                   -1.40       -6.30
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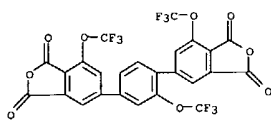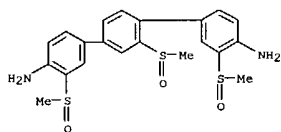
FILE 'REGISTRY' ENTERED AT 15:39:00 ON 21 SEP 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 20 SEP 2004   HIGHEST RN 748739-98-2
DICTIONARY FILE UPDATES: 20 SEP 2004   HIGHEST RN 748739-98-2

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

   Please note that search-term pricing does apply when
   conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Program Files\Stnexp\Queries\10609456.str


```
chain nodes :
7  9  11  15
ring nodes :
1  2  3  4  5  6  12  13  14  16  17  18  19  20  21  22
chain bonds :
2-9  3-7  11-12  14-15
ring bonds :
1-2  1-6  2-3  3-4  4-5  5-6  12-13  12-16  12-19  13-14  14-18  14-21  16-17
17-18  17-22  19-20  20-21  20-22
exact/norm bonds :
2-9  3-7  11-12  12-13  12-16  12-19  13-14  14-15  14-18  14-21  16-17  17-18
17-22  19-20  20-21  20-22
normalized bonds :
1-2  1-6  2-3  3-4  4-5  5-6
```

G1:O,S

G2:C,O,S,N

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:CLASS 11:CLASS 12:Atom
 13:Atom 14:Atom 15:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom
22:Atom 23:CLASS

L29   STRUCTURE UPLOADED

=> d query
L29   STR
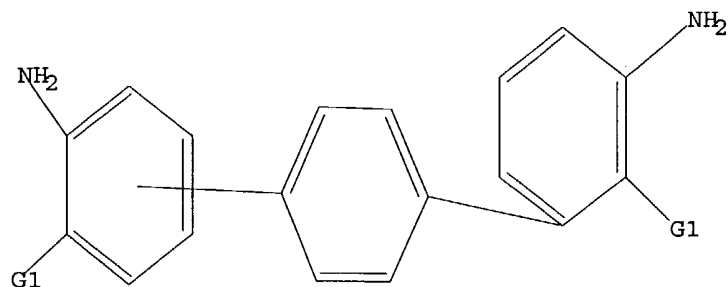
G1 O,S

Structure attributes must be viewed using STN Express query preparation.

=> s l29
SAMPLE SEARCH INITIATED 15:39:38 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   53 TO ITERATE

100.0% PROCESSED   53 ITERATIONS   0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE   **COMPLETE**
                         BATCH   **COMPLETE**
PROJECTED ITERATIONS: 624 TO   1496
PROJECTED ANSWERS: 0 TO   0

L30   0 SEA SSS SAM L29

=> s l29 full
FULL SEARCH INITIATED 15:39:42 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   1230 TO ITERATE

100.0% PROCESSED   1230 ITERATIONS   0 ANSWERS
SEARCH TIME: 00.00.01

L31   0 SEA SSS FUL L29

=>

chain nodes :
7 9 11 15
ring nodes :
1 2 3 4 5 6 12 13 14 16 17 18 19 20 21 22
chain bonds :
2-9 3-7 11-12 14-15
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 12-13 12-16 12-19 13-14 14-18 14-21 16-17
17-18 17-22 19-20 20-21 20-22
exact/norm bonds :
2-9 3-7 11-12 12-13 12-16 12-19 13-14 14-15 14-18 14-21 16-17 17-18
17-22 19-20 20-21 20-22
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6

G1:O,S
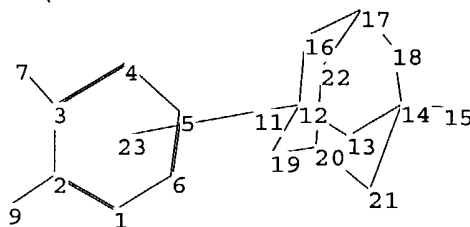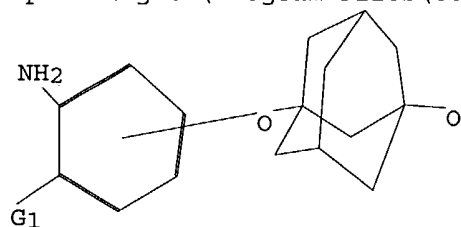
G2:C,O,S,N

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:CLASS 11:CLASS 12:Atom
 13:Atom 14:Atom 15:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom
22:Atom 23:CLASS

L32   STRUCTURE UPLOADED

=> d queyr
L32 HAS NO ANSWERS
'QUEYR ' IS NOT A VALID STRUCTURE FORMAT KEYWORD
Structure Formats
SIA ----- Structure Image, Attributes, and map table if it contains
          data. (Default)
SIM ----- Structure IMage.
SAT ----- Structure ATtributes and map table if it contains data.
SCT ----- Structure Connection Table and map table if it contains
          data.
SDA ----- All Structure DAta (image, attributes, connection table and
          map table if it contains data).
NOS ----- NO Structure data.
ENTER STRUCTURE FORMAT (SIM), NOS:nos
L32   STR

=> d query

L32   STR
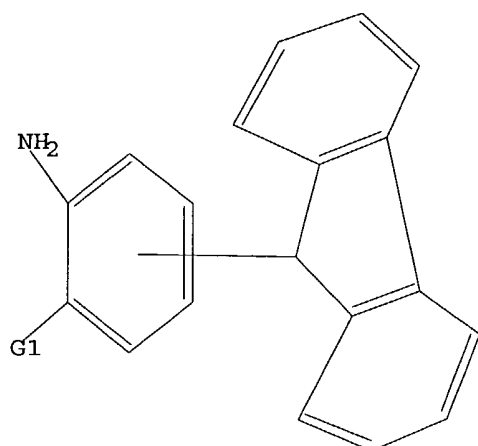
G1 O,S

Structure attributes must be viewed using STN Express query preparation.

=> s l32
SAMPLE SEARCH INITIATED 15:43:13 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   4686 TO ITERATE

 21.3% PROCESSED   1000 ITERATIONS   ˙2 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                         BATCH   **COMPLETE**
PROJECTED ITERATIONS: 89616 TO   97824
PROJECTED ANSWERS: 4 TO   370

L33   2 SEA SSS SAM L32

=> d scan

IN   2,6-Naphthalenedicarbonyl dichloride, 1-(trifluoromethyl)-, polymer with
     3,3'-(9H-fluoren-9-ylidene)bis[6-aminophenol] and
4,4'-[2,2,2-trifluoro-1-
     (trifluoromethyl)ethylidene]bis[benzoyl chloride] (9CI)
MF   (C25 H20 N2 O2 . C17 H8 Cl2 F6 O2 . C13 H5 Cl2 F3 O2)x
CI   PMS

     CM   1

     CM   2

     CM   3
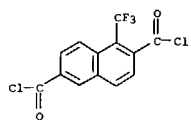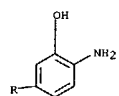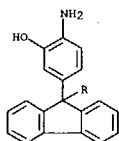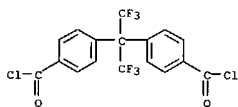
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1): 0

=>
Uploading C:\Program Files\Stnexp\Queries\10609456.str
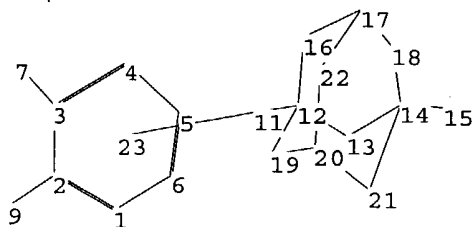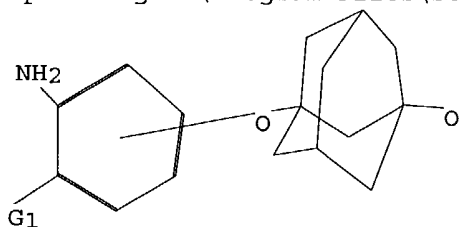
chain nodes :
7   9   11   15
ring nodes :
1   2   3   4   5   6   12   13   14   16   17   18   19   20   21   22
chain bonds :
2-9   3-7   11-12   14-15
ring bonds :
1-2   1-6   2-3   3-4   4-5   5-6   12-13   12-16   12-19   13-14   14-18   14-21   16-17
17-18   17-22   19-20   20-21   20-22
exact/norm bonds :
2-9   3-7   11-12   12-13   12-16   12-19   13-14   14-15   14-18   14-21   16-17   17-18
17-22   19-20   20-21   20-22
normalized bonds :
1-2   1-6   2-3   3-4   4-5   5-6

G1:O,S

G2:C,O,S,N

Match level :
1:Atom   2:Atom   3:Atom   4:Atom   5:Atom   6:Atom   7:CLASS   9:CLASS   11:CLASS   12:Atom
 13:Atom   14:Atom   15:CLASS   16:Atom   17:Atom   18:Atom   19:Atom   20:Atom   21:Atom
22:Atom   23:CLASS

L34   STRUCTURE UPLOADED

=> d qury
L34 HAS NO ANSWERS
'QURY ' IS NOT A VALID STRUCTURE FORMAT KEYWORD
Structure Formats
SIA ----- Structure Image, Attributes, and map table if it contains
          data. (Default)
SIM ----- Structure IMage.
SAT ----- Structure ATtributes and map table if it contains data.
SCT ----- Structure Connection Table and map table if it contains
          data.
SDA ----- All Structure DAta (image, attributes, connection table and
          map table if it contains data).
NOS ----- NO Structure data.
ENTER STRUCTURE FORMAT (SIM), NOS:nos
L34   STR

```
=> d query
L34              STR
```
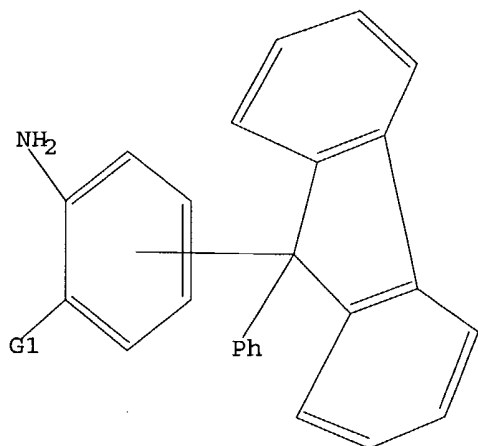


```
G1 O,S
```

Structure attributes must be viewed using STN Express query preparation.

```
=> s 134
SAMPLE SEARCH INITIATED 15:45:01 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -    713 TO ITERATE

100.0% PROCESSED     713 ITERATIONS                        0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:   ONLINE   **COMPLETE**
                         BATCH    **COMPLETE**
PROJECTED ITERATIONS:        12659 TO     15861
PROJECTED ANSWERS:               0 TO         0

L35            0 SEA SSS SAM L34

=> s 134 full
FULL SEARCH INITIATED 15:45:06 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -  14838 TO ITERATE

100.0% PROCESSED   14838 ITERATIONS                        0 ANSWERS
SEARCH TIME: 00.00.01

L36            0 SEA SSS FUL L34

=>
Uploading C:\Program Files\Stnexp\Queries\10609456.str
```

```
chain nodes :
7  9  11  15
ring nodes :
1  2  3  4  5  6  12  13  14  16  17  18  19  20  21  22
chain bonds :
2-9  3-7  11-12  14-15
ring bonds :
1-2  1-6  2-3  3-4  4-5  5-6  12-13  12-16  12-19  13-14  14-18  14-21  16-17
17-18  17-22  19-20  20-21  20-22
exact/norm bonds :
2-9  3-7  11-12  12-13  12-16  12-19  13-14  14-15  14-18  14-21  16-17  17-18
17-22  19-20  20-21  20-22
normalized bonds :
1-2  1-6  2-3  3-4  4-5  5-6
```

G1:O,S

G2:C,O,S,N

```
Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:CLASS  9:CLASS  11:CLASS  12:Atom
 13:Atom  14:Atom  15:CLASS  16:Atom  17:Atom  18:Atom  19:Atom  20:Atom  21:Atom
22:Atom  23:CLASS
```

L37   STRUCTURE UPLOADED

=> d query
L37   STR
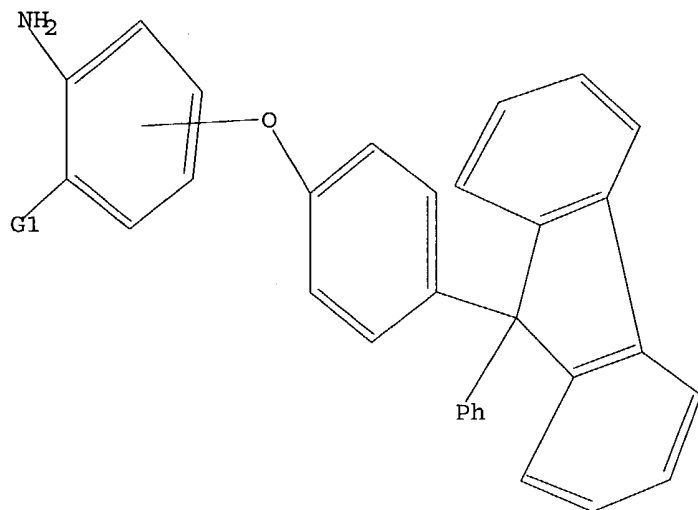
G1 O,S

Structure attributes must be viewed using STN Express query preparation.


```
=> s 137
SAMPLE SEARCH INITIATED 15:47:29 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      21 TO ITERATE

100.0% PROCESSED       21 ITERATIONS                          0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE   **COMPLETE**
                        BATCH    **COMPLETE**
PROJECTED ITERATIONS:         146 TO        694
PROJECTED ANSWERS:              0 TO          0

L38             0 SEA SSS SAM L37

=> s 137 full
FULL SEARCH INITIATED 15:47:33 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    268 TO ITERATE

100.0% PROCESSED      268 ITERATIONS                          0 ANSWERS
SEARCH TIME: 00.00.01

L39             0 SEA SSS FUL L37

=>
Uploading C:\Program Files\Stnexp\Queries\10609456.str
```
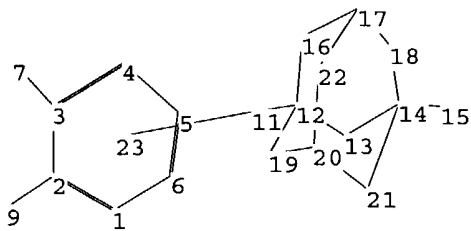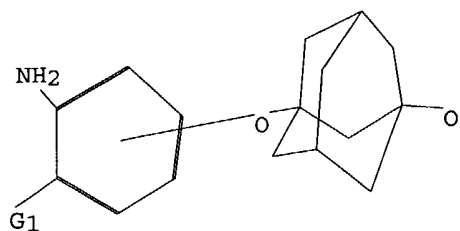
chain nodes :
7   9   11   15
ring nodes :
1   2   3   4   5   6   12   13   14   16   17   18   19   20   21   22
chain bonds :
2-9   3-7   11-12   14-15
ring bonds :
1-2   1-6   2-3   3-4   4-5   5-6   12-13   12-16   12-19   13-14   14-18   14-21   16-17
17-18   17-22   19-20   20-21   20-22
exact/norm bonds :
2-9   3-7   11-12   12-13   12-16   12-19   13-14   14-15   14-18   14-21   16-17   17-18
17-22   19-20   20-21   20-22
normalized bonds :
1-2   1-6   2-3   3-4   4-5   5-6

G1:O,S

G2:C,O,S,N

Match level :
1:Atom   2:Atom   3:Atom   4:Atom   5:Atom   6:Atom   7:CLASS   9:CLASS   11:CLASS   12:Atom
 13:Atom   14:Atom   15:CLASS   16:Atom   17:Atom   18:Atom   19:Atom   20:Atom   21:Atom
22:Atom   23:CLASS

L40   STRUCTURE UPLOADED

=> d query
L40   STR

G1 O,S

G2 C,O,S,N

Structure attributes must be viewed using STN Express query preparation.


```
=> s l40
SAMPLE SEARCH INITIATED 15:51:24 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   5048 TO ITERATE

 19.8% PROCESSED    1000 ITERATIONS                          0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:   ONLINE  **COMPLETE**
                         BATCH   **COMPLETE**
PROJECTED ITERATIONS:        96700 TO    105220
PROJECTED ANSWERS:               0 TO         0

L41            0 SEA SSS SAM L40

=> s l40 full
FULL SEARCH INITIATED 15:51:31 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 102567 TO ITERATE

100.0% PROCESSED  102567 ITERATIONS                          0 ANSWERS
SEARCH TIME: 00.00.02

L42            0 SEA SSS FUL L40

=>
Uploading C:\Program Files\Stnexp\Queries\10609456.str
```
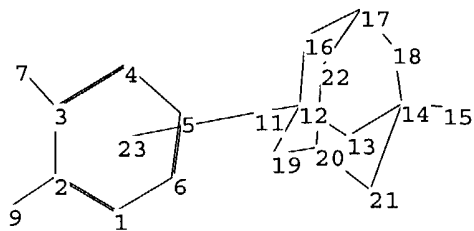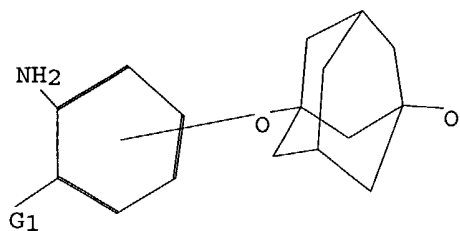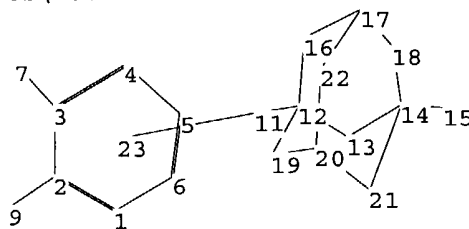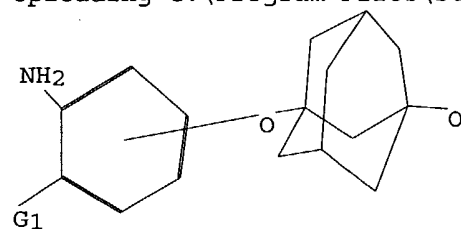

chain nodes :

```
7  9  11  15
ring nodes :
1  2  3  4  5  6  12  13  14  16  17  18  19  20  21  22
chain bonds :
2-9  3-7  11-12  14-15
ring bonds :
1-2  1-6  2-3  3-4  4-5  5-6  12-13  12-16  12-19  13-14  14-18  14-21  16-17
17-18  17-22  19-20  20-21  20-22
exact/norm bonds :
2-9  3-7  11-12  12-13  12-16  12-19  13-14  14-15  14-18  14-21  16-17  17-18
17-22  19-20  20-21  20-22
normalized bonds :
1-2  1-6  2-3  3-4  4-5  5-6
```

G1:O,S

G2:C,O,S,N

Match level :
```
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:CLASS  9:CLASS  11:CLASS  12:Atom
 13:Atom  14:Atom  15:CLASS  16:Atom  17:Atom  18:Atom  19:Atom  20:Atom  21:Atom
22:Atom  23:CLASS
```
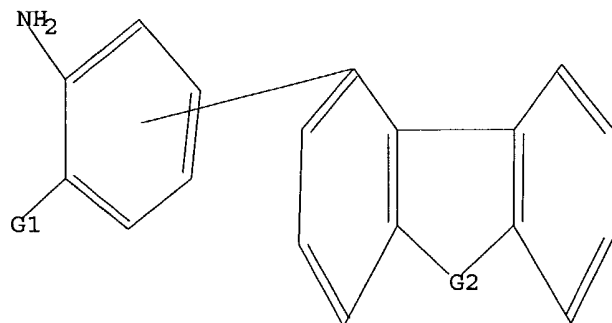
L43   STRUCTURE UPLOADED

=> d query
L43   STR

G1 O,S

G2 C,O,S,N

Structure attributes must be viewed using STN Express query preparation.

=> s l43
SAMPLE SEARCH INITIATED 15:52:22 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   5048 TO ITERATE

 19.8% PROCESSED   1000 ITERATIONS   0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE   **COMPLETE**
                          BATCH   **COMPLETE**
PROJECTED ITERATIONS: 96700 TO   105220
PROJECTED ANSWERS: 0 TO   0

L44   0 SEA SSS SAM L43

=> s l43
SAMPLE SEARCH INITIATED 15:52:26 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   5048 TO ITERATE

  19.8% PROCESSED   1000 ITERATIONS   0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE   **COMPLETE**
                          BATCH   **COMPLETE**
PROJECTED ITERATIONS: 96700 TO   105220
PROJECTED ANSWERS: 0 TO   0

L45   0 SEA SSS SAM L43

=> s l43 full
FULL SEARCH INITIATED 15:52:30 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 102567 TO ITERATE

100.0% PROCESSED   102567 ITERATIONS   0 ANSWERS
SEARCH TIME: 00.00.01

L46   0 SEA SSS FUL L43

=>
Uploading C:\Program Files\Stnexp\Queries\10609456.str
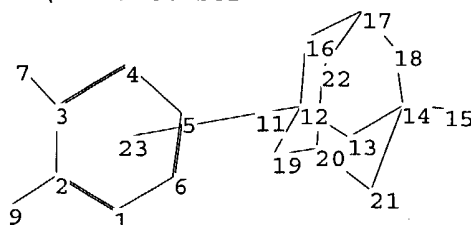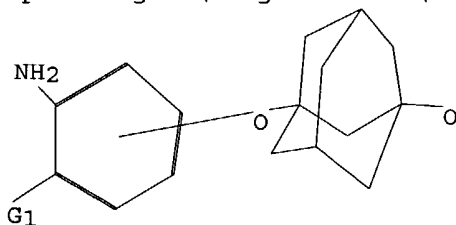
chain nodes :
7 9   11   15
ring nodes :
1   2   3   4   5   6   12   13   14   16   17   18   19   20   21   22
chain bonds :
2-9   3-7   11-12   14-15
ring bonds :
1-2   1-6   2-3   3-4   4-5   5-6   12-13   12-16   12-19   13-14   14-18   14-21   16-17
17-18   17-22   19-20   20-21   20-22
exact/norm bonds :
2-9   3-7   11-12   12-13   12-16   12-19   13-14   14-15   14-18   14-21   16-17   17-18
17-22   19-20   20-21   20-22
normalized bonds :
1-2   1-6   2-3   3-4   4-5   5-6

G1:O,S
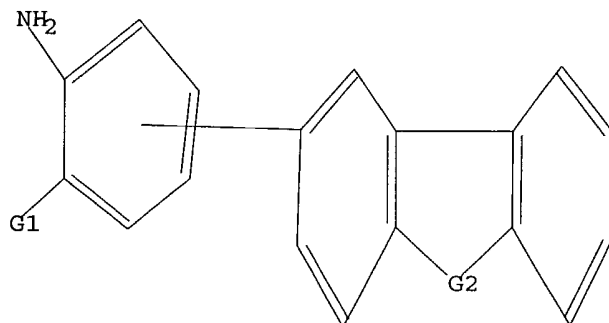
G2:C,O,S,N

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:CLASS 11:CLASS 12:Atom
 13:Atom 14:Atom 15:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom
 22:Atom 23:CLASS

L47   STRUCTURE UPLOADED

=> d query
L47   STR
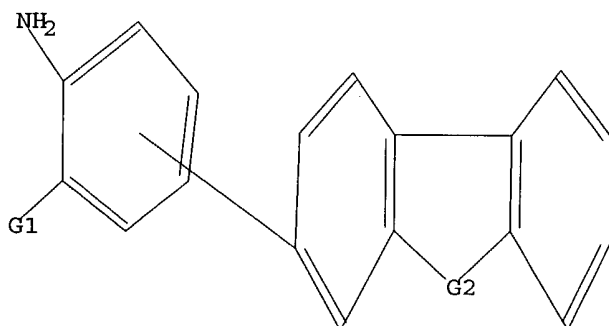
G1 O,S
G2 C,O,S,N

Structure attributes must be viewed using STN Express query preparation.

=> s l47
SAMPLE SEARCH INITIATED 15:53:11 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   5048 TO ITERATE

 19.8% PROCESSED   1000 ITERATIONS   0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS: 96700 TO   105220
PROJECTED ANSWERS: 0 TO   0

L48   0 SEA SSS SAM L47

=> s l47 full
FULL SEARCH INITIATED 15:53:19 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 102567 TO ITERATE

```
100.0% PROCESSED   102567 ITERATIONS                          1 ANSWERS
SEARCH TIME: 00.00.01


L49             1 SEA SSS FUL L47

=> fil caplus
COST IN U.S. DOLLARS                          SINCE FILE        TOTAL
                                                   ENTRY      SESSION
FULL ESTIMATED COST                               940.08      2234.23


DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)    SINCE FILE        TOTAL
                                                   ENTRY      SESSION
CA SUBSCRIBER PRICE                                 0.00        -6.30

FILE 'CAPLUS' ENTERED AT 15:53:25 ON 21 SEP 2004
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FILE COVERS 1907 - 21 Sep 2004  VOL 141 ISS 13
FILE LAST UPDATED: 20 Sep 2004  (20040920/ED)

   This file contains CAS Registry Numbers for easy and accurate
   substance identification.


=> s l49
L50             2 L49

=> d l50 1-2 abs ibib hitstr
```

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB   The title compds. I [ring C represents a benzene or cyclohexene ring; X
     and Y are the same or different and each represents carbonyl or
methylene;
       R1 represents lower alkyl or aralkyl; R2 represents hydrogen, optionally
       substituted lower alkyl, lower alkenyl, or optionally substituted
aralkyl;
       and R3, R4, R5, R6, R7, R8, R9, R10 and R11 are the same or different and
       each represents hydrogen, optionally substituted lower alkyl, optionally
       substituted lower alkenyl, halogeno, nitro, optionally substituted lower
       alkanoyl, etc.] are prepared The title compound II.HCl at 10 mg/kg/day
s.c.
       for 5 days increased the production of thrombocytes in mice by 210%.

ACCESSION NUMBER:	1998:175926 CAPLUS
DOCUMENT NUMBER:	128:244044
TITLE:	Preparation of pyrrolocarbazole derivatives for the treatment of thrombopenia
INVENTOR(S):	Ino, Yoji; Kanai, Fumihiko; Murakami, Satoru; Murakata, Chikara; Akama, Tsutomu; Shiotsu, Yukimasa; Yamashita, Kinya; Akinaga, Shiro; Tamaoki, Tatsuya
PATENT ASSIGNEE(S):	Kyowa Hakko Kogyo Co., Ltd., Japan
SOURCE:	PCT Int. Appl., 193 pp. CODEN: PIXXD2
DOCUMENT TYPE:	Patent
LANGUAGE:	Japanese
FAMILY ACC. NUM. COUNT:	1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9809967	A1	19980312	WO 1997-JP3153	19970908
W: AU, BG, BR, CA, CN, CZ, HU, JP, KR, MX, NO, NZ, PL, RO, SG, SI,				
SK, UA, US, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT,				
SE				
AU 9741361	A1	19980326	AU 1997-41361	19970908
PRIORITY APPLN. INFO.:			JP 1996-237556	19960909
			WO 1997-JP3153	19970908

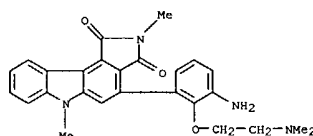OTHER SOURCE(S):   MARPAT 128:244044
IT   **183125-45-3P**
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
         (preparation of pyrrolocarbazole derivs. for the treatment of
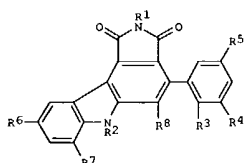thrombopenia)
RN   183125-45-3 CAPLUS
CN   Pyrrolo[3,4-c]carbazole-1,3(2H,6H)-dione, 4-[3-amino-2-[2-
     (dimethylamino)ethoxy]phenyl]-2,6-dimethyl- (9CI) (CA INDEX NAME)

REFERENCE COUNT:	8	THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT		

AB   The title compds. I [R1 represents lower alkyl or aralkyl; R2 represents
     hydrogen, optionally substituted lower alkyl, lower alkenyl or optionally
     substituted aralkyl; R3, R4, R5, R6 and R7 are the same or different and
     each represents hydrogen, halogeno, nitro, optionally substituted lower
     alkanoyl, etc.; and R8 represents hydrogen or R8R3 = CONR12; R12 = H,
     etc.; provided that R2, R3, R4, R5, R6, R7 and R8 do not represent
     hydrogen at the same time when R1 is benzyl] are prepared I [R1 = R2 =
     methyl; R3 = O(CH2)2NMe2; R4 = R6 = R7 = R8 = H; R5 = Br] at 10 mg/Kg s.
     c. increased the production of thrombocytes in mice by 295%.

ACCESSION NUMBER:	1996:674427 CAPLUS
DOCUMENT NUMBER:	125:300982
TITLE:	Preparation of pyrrolocarbazole derivatives for the treatment of thrombocytopenia
INVENTOR(S):	Ikuina, Yoji; Murakata, Chikara; Saitoh, Yutaka; Shiotsu, Yukimasa; Iida, Takako; Tamaoki, Tatsuya; Yamashita, Kinya; Akinaga, Shiro
PATENT ASSIGNEE(S):	Kyowa Hakko Kogyo Co., Ltd., Japan
SOURCE:	PCT Int. Appl., 138 pp. CODEN: PIXXD2
DOCUMENT TYPE:	Patent
LANGUAGE:	Japanese
FAMILY ACC. NUM. COUNT:	1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9628447	A1	19960919	WO 1996-JP557	19960307
W: AU, CA, CN, HU, JP, KR, NO, NZ, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT,				
SE				
CA 2189760	AA	19960919	CA 1996-2189760	19960307
AU 9648894	A1	19961002	AU 1996-48894	19960307
EP 768311	A1	19970416	EP 1996-905022	19960307
EP 768311	B1	20030806		
R: BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, LU, MC, NL,				
PT, SE				
AT 246686	E	20030815	AT 1996-905022	19960307
US 5728709	A	19980317	US 1996-737194	19961108
PRIORITY APPLN. INFO.:			JP 1995-49441 A	19950309

OTHER SOURCE(S):   MARPAT 125:300982
IT   **183125-45-3P**
     RL: BAC (Biological activity or effector, except adverse); BSU
(Biological
     study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
     BIOL (Biological study); PREP (Preparation); USES (Uses)
         (preparation of pyrrolocarbazole derivs. for treatment of
thrombocytopenia)
RN   183125-45-3 CAPLUS
CN   Pyrrolo[3,4-c]carbazole-1,3(2H,6H)-dione, 4-[3-amino-2-[2-
     (dimethylamino)ethoxy]phenyl]-2,6-dimethyl- (9CI) (CA INDEX NAME)
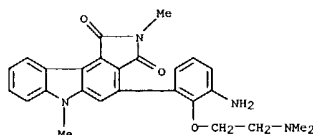
```
=> fil reg
COST IN U.S. DOLLARS                              SINCE FILE       TOTAL
                                                      ENTRY      SESSION
FULL ESTIMATED COST                                    9.96      2244.19


DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)        SINCE FILE       TOTAL
                                                      ENTRY      SESSION
CA SUBSCRIBER PRICE                                   -1.40        -7.70


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STRUCTURE FILE UPDATES:   20 SEP 2004   HIGHEST RN 748739-98-2
DICTIONARY FILE UPDATES:  20 SEP 2004   HIGHEST RN 748739-98-2


TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004


   Please note that search-term pricing does apply when
   conducting SmartSELECT searches.


Crossover limits have been increased.  See HELP CROSSOVER for details.


Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html


=>
Uploading C:\Program Files\Stnexp\Queries\10609456.str
```
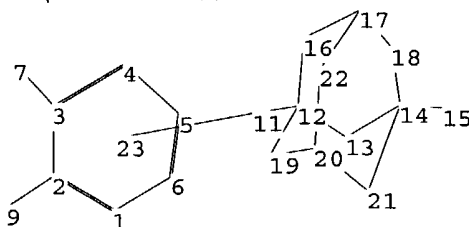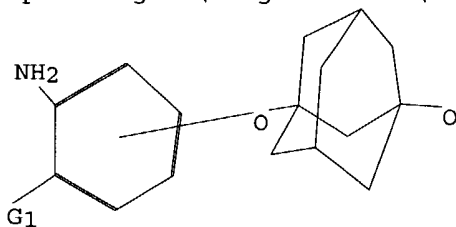
```
chain nodes :
7   9   11   15
ring nodes :
1   2   3   4   5   6   12   13   14   16   17   18   19   20   21   22
chain bonds :
2-9   3-7   11-12   14-15
ring bonds :
1-2   1-6   2-3   3-4   4-5   5-6   12-13   12-16   12-19   13-14   14-18   14-21   16-17
17-18   17-22   19-20   20-21   20-22
exact/norm bonds :
2-9   3-7   11-12   12-13   12-16   12-19   13-14   14-15   14-18   14-21   16-17   17-18
17-22   19-20   20-21   20-22
normalized bonds :
1-2   1-6   2-3   3-4   4-5   5-6
```
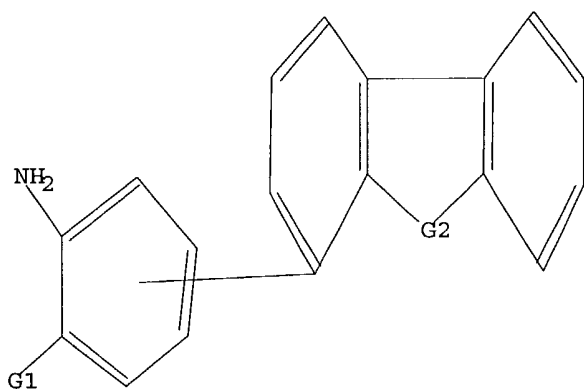
G1:O,S

G2:C,O,S,N

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:CLASS 11:CLASS 12:Atom
 13:Atom 14:Atom 15:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom
22:Atom 23:CLASS

L51   STRUCTURE UPLOADED

=> d query
L51   STR

G1 O,S
G2 C,O,S,N

Structure attributes must be viewed using STN Express query preparation.

=> s l51
SAMPLE SEARCH INITIATED 15:54:43 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   5048 TO ITERATE

 19.8% PROCESSED   1000 ITERATIONS   0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                         BATCH   **COMPLETE**
PROJECTED ITERATIONS: 96700 TO   105220
PROJECTED ANSWERS: 0 TO   0

L52   0 SEA SSS SAM L51

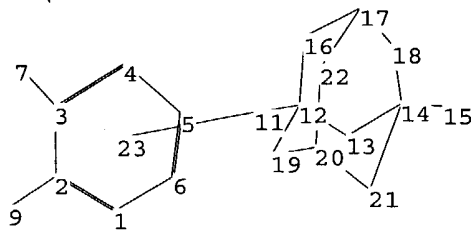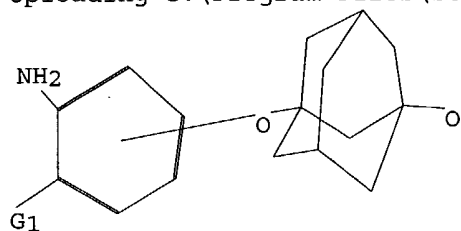=> s l51 full
FULL SEARCH INITIATED 15:54:48 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 102567 TO ITERATE

L53   0 SEA SSS FUL L51

=>
Uploading C:\Program Files\Stnexp\Queries\10609456.str

chain nodes :
7 9 11 15
ring nodes :
1 2 3 4 5 6 12 13 14 16 17 18 19 20 21 22
chain bonds :
2-9 3-7 11-12 14-15
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 12-13 12-16 12-19 13-14 14-18 14-21 16-17
17-18 17-22 19-20 20-21 20-22
exact/norm bonds :
2-9 3-7 11-12 12-13 12-16 12-19 13-14 14-15 14-18 14-21 16-17 17-18
17-22 19-20 20-21 20-22
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
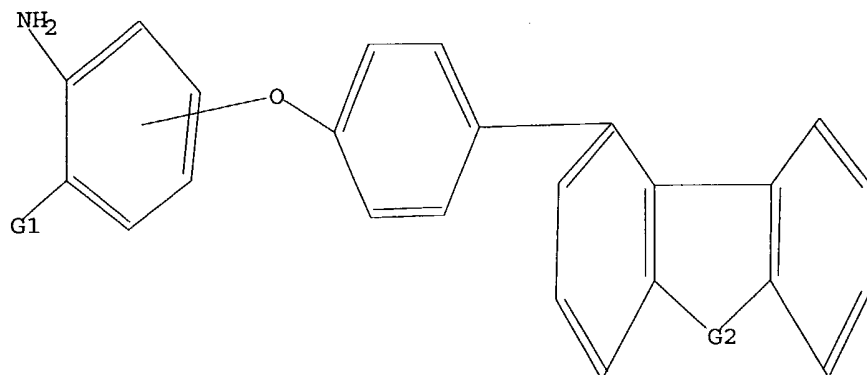

G1:O,S

G2:C,O,S,N

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:CLASS 11:CLASS 12:Atom
 13:Atom 14:Atom 15:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom
22:Atom 23:CLASS

L54   STRUCTURE UPLOADED

=> d query
L54   STR

G1 O,S
G2 C,O,S,N

Structure attributes must be viewed using STN Express query preparation.


```
=> s 154
SAMPLE SEARCH INITIATED 15:57:01 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -     169 TO ITERATE

100.0% PROCESSED      169 ITERATIONS                              0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:   ONLINE   **COMPLETE**
                         BATCH    **COMPLETE**
PROJECTED ITERATIONS:          2601 TO       4159
PROJECTED ANSWERS:                0 TO          0

L55             0 SEA SSS SAM L54

=> s 154 full
FULL SEARCH INITIATED 15:57:06 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   3754 TO ITERATE

100.0% PROCESSED    3754 ITERATIONS                              0 ANSWERS
SEARCH TIME: 00.00.01

L56             0 SEA SSS FUL L54

=>
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```
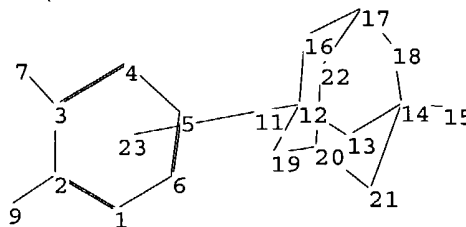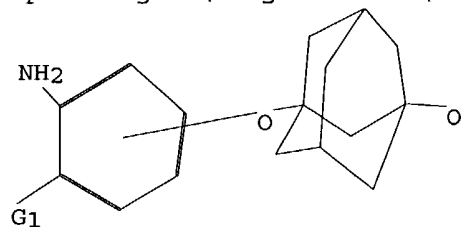
chain nodes :
7 9 11 15
ring nodes :
1 2 3 4 5 6 12 13 14 16 17 18 19 20 21 22
chain bonds :
2-9 3-7 11-12 14-15
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 12-13 12-16 12-19 13-14 14-18 14-21 16-17
17-18 17-22 19-20 20-21 20-22
exact/norm bonds :
2-9 3-7 11-12 12-13 12-16 12-19 13-14 14-15 14-18 14-21 16-17 17-18
17-22 19-20 20-21 20-22
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6

G1:O,S
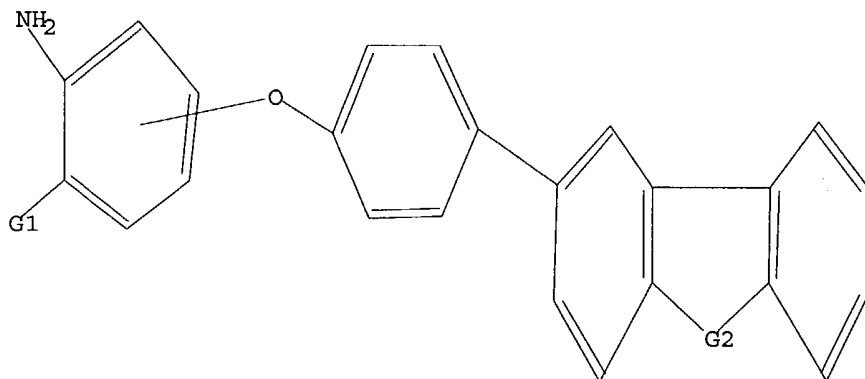
G2:C,O,S,N

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:CLASS 11:CLASS 12:Atom
 13:Atom 14:Atom 15:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom
22:Atom 23:CLASS

L57   STRUCTURE UPLOADED

=> d query
L57   STR

G1 O,S

G2 C,O,S,N

Structure attributes must be viewed using STN Express query preparation.

=> s l57
SAMPLE SEARCH INITIATED 15:57:44 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   172 TO ITERATE

100.0% PROCESSED   172 ITERATIONS   0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE   **COMPLETE**
                         BATCH   **COMPLETE**
PROJECTED ITERATIONS: 2654 TO   4226
PROJECTED ANSWERS: 0 TO   0

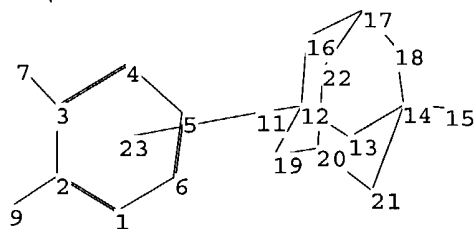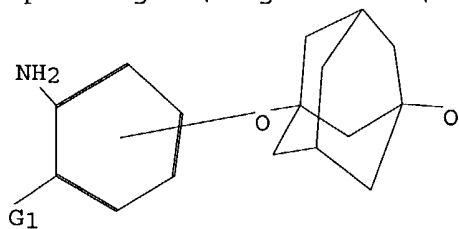L58   0 SEA SSS SAM L57

=> s 157 full
FULL SEARCH INITIATED 15:57:49 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   3836 TO ITERATE

100.0% PROCESSED   3836 ITERATIONS   0 ANSWERS
SEARCH TIME: 00.00.01

L59   0 SEA SSS FUL L57

=>
Uploading C:\Program Files\Stnexp\Queries\10609456.str

chain nodes :
7   9   11 15
ring nodes :
1   2   3   4   5   6   12 13 14 16 17 18 19 20 21 22
chain bonds :
2-9 3-7 11-12 14-15
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 12-13 12-16 12-19 13-14 14-18 14-21 16-17
17-18 17-22 19-20 20-21 20-22
exact/norm bonds :
2-9 3-7 11-12 12-13 12-16 12-19 13-14 14-15 14-18 14-21 16-17 17-18
17-22 19-20 20-21 20-22
normalized bonds :
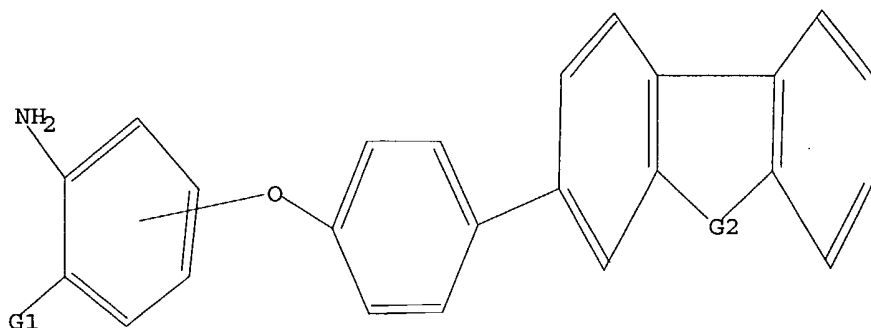1-2 1-6 2-3 3-4 4-5 5-6

G1:O,S

G2:C,O,S,N

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:CLASS 11:CLASS 12:Atom
 13:Atom 14:Atom 15:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom
22:Atom 23:CLASS

L60   STRUCTURE UPLOADED

```
=> d query
L60                STR
```


G1 O,S
G2 C,O,S,N

Structure attributes must be viewed using STN Express query preparation.


```
=> s l60
SAMPLE SEARCH INITIATED 15:58:27 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -    180 TO ITERATE

100.0% PROCESSED    180 ITERATIONS                              0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:       2796 TO       4404
PROJECTED ANSWERS:             0 TO          0

L61           0 SEA SSS SAM L60

=> s l60 full
FULL SEARCH INITIATED 15:58:31 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   3890 TO ITERATE

100.0% PROCESSED   3890 ITERATIONS                              0 ANSWERS
SEARCH TIME: 00.00.01

L62           0 SEA SSS FUL L60

=>
Uploading C:\Program Files\Stnexp\Queries\10609456.str
```
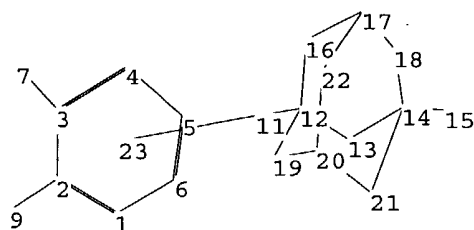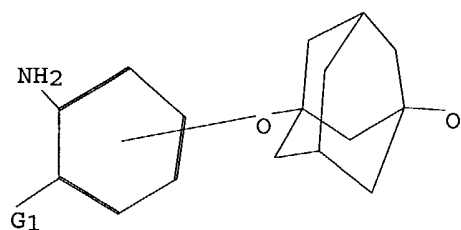
```
chain nodes :
7   9   11  15
ring nodes :
1   2   3   4   5   6   12  13  14  16  17  18  19  20  21  22
chain bonds :
2-9   3-7   11-12   14-15
ring bonds :
1-2   1-6   2-3   3-4   4-5   5-6   12-13   12-16   12-19   13-14   14-18   14-21   16-17
17-18   17-22   19-20   20-21   20-22
exact/norm bonds :
2-9   3-7   11-12   12-13   12-16   12-19   13-14   14-15   14-18   14-21   16-17   17-18
17-22   19-20   20-21   20-22
normalized bonds :
1-2   1-6   2-3   3-4   4-5   5-6


G1:O,S

G2:C,O,S,N

Match level :
1:Atom   2:Atom   3:Atom   4:Atom   5:Atom   6:Atom   7:CLASS   9:CLASS   11:CLASS   12:Atom
 13:Atom   14:Atom   15:CLASS   16:Atom   17:Atom   18:Atom   19:Atom   20:Atom   21:Atom
22:Atom   23:CLASS




L63       STRUCTURE UPLOADED

=> d query
L63               STR
```
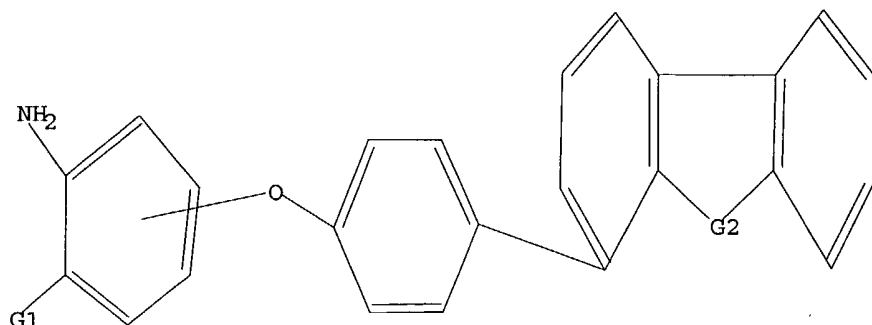
G1 O,S

G2 C,O,S,N

Structure attributes must be viewed using STN Express query preparation.


```
=> s l63
SAMPLE SEARCH INITIATED 15:59:11 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -     168 TO ITERATE

100.0% PROCESSED     168 ITERATIONS                              0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:        2583 TO      4137
PROJECTED ANSWERS:              0 TO         0

L64            0 SEA SSS SAM L63

=> s l63 full
FULL SEARCH INITIATED 15:59:16 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   3718 TO ITERATE

100.0% PROCESSED    3718 ITERATIONS                              0 ANSWERS
SEARCH TIME: 00.00.01

L65            0 SEA SSS FUL L63

=>
Uploading C:\Program Files\Stnexp\Queries\10609456.str
```
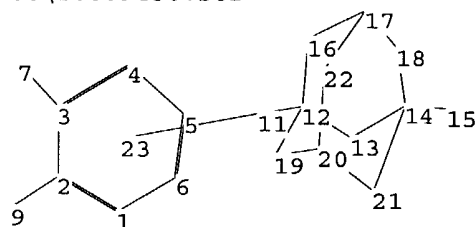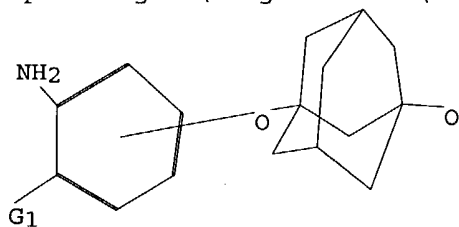

chain nodes :
7 9 11 15

ring nodes :
1 2   3   4   5   6   12 13 14 16 17 18 19 20 21 22
chain bonds :
2-9 3-7 11-12 14-15
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 12-13 12-16 12-19 13-14 14-18 14-21 16-17
17-18 17-22 19-20 20-21 20-22
exact/norm bonds :
2-9 3-7 11-12 12-13 12-16 12-19 13-14 14-15 14-18 14-21 16-17 17-18
17-22 19-20 20-21 20-22
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6

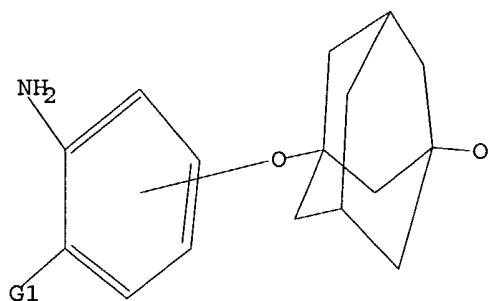
G1:O,S

G2:C,O,S,N

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:CLASS 11:CLASS 12:Atom
 13:Atom 14:Atom 15:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom
22:Atom 23:CLASS

L66   STRUCTURE UPLOADED

=> d query
L66   STR

G1 O,S

G2 C,O,S,N

Structure attributes must be viewed using STN Express query preparation.

=> s l66
SAMPLE SEARCH INITIATED 16:00:52 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   179 TO ITERATE

100.0% PROCESSED   179 ITERATIONS   0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

```
                    BATCH    **COMPLETE**
PROJECTED ITERATIONS:          2778 TO      4382
PROJECTED ANSWERS:                0 TO         0


L67           0 SEA SSS SAM L66

=> s l66 full
FULL SEARCH INITIATED 16:00:56 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   3749 TO ITERATE

100.0% PROCESSED   3749 ITERATIONS                              0 ANSWERS
SEARCH TIME: 00.00.01

L68           0 SEA SSS FUL L66

=> logoff y
COST IN U.S. DOLLARS                           SINCE FILE       TOTAL
                                                    ENTRY     SESSION
FULL ESTIMATED COST                               935.04     3179.23


DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)     SINCE FILE       TOTAL
                                                    ENTRY     SESSION
CA SUBSCRIBER PRICE                                 0.00       -7.70

STN INTERNATIONAL LOGOFF AT 16:01:00 ON 21 SEP 2004
```